

The



CHEMIST AND DRUGGIST

or RETAILER - WHOLESALE - MANUFACTURER

JANUARY 15, 1949

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and Good Business for
1949



whenever you stock

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RESILIENT

MORE
ECONOMICAL

LASTS
LONGER

RESISTS
STERILISING
FLUIDS

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for all purposes

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Order through your wholesaler. Popular lines available today include Dressing Comb 1553 7½" (illustrated), Dressing Comb 1515 7½", Gentlemen's Comb 1131 7", Handled Comb 290 7" and 3" Tooth Comb 611.

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VULCANITE COMBS — BETTER FOR THE HAIR

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They may *look* clean and *still* be contaminated

and thus be a source of gastric infection

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to protect their babies by sterilizing both

bottle and teats the MILTON way,

which is safe, sure, simple and economical.

You can sell an extra bottle of MILTON

with every feeding bottle or teat.

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(P.I.)

PURPLE

W.E. (P.I.)

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"LITTLE JOHN" DRUMS

CRYSTALS. POWDERS,
TABLETS

OINTMENT BOXES



CHEPETTE

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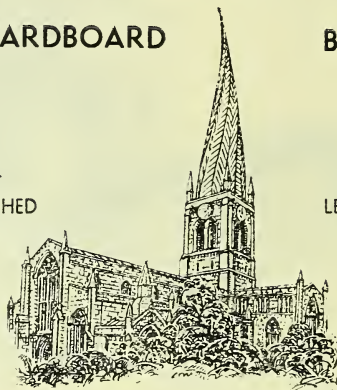
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OF CHESTERFIELD

For CARDBOARD

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1949

FOR OVER A CENTURY

STOCK ROUND BOXES
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BY

ROBINSONS' OF CHESTERFIELD

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back to pre-war standards.The quality being improved by modern methods
of manufacture.Specifications and standards are in accordance with—
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*palatable preparation of enzyme hydrolysed liver
with malt extract and vitamin supplements designed for*

PROTEIN REPLACEMENT THERAPY

PROTEIN—In each 30 gm. there are 15 gm. of protein derivatives (supplying all the essential amino-acids).

CARBOHYDRATE—In the form of extract of malt, providing a useful source of calories.

VITAMINS—Being derived from liver, Hepovite is rich in members of the vitamin B complex. Vitamins A and D, derived from fish oils, are added.

Hepovite also contains calcium, phosphorus, iron, choline and haemopoietic factors. By the removal of the liver fats and the addition of flavourings, the taste of Hepovite is acceptable to the most fastidious palate.

CONTAINERS OF 5 oz. (approx. 140 gm.)

Made in England by

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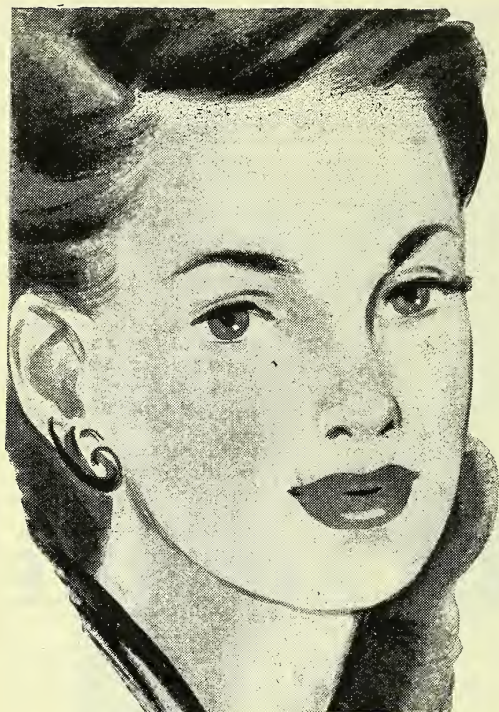
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EVANS

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IN MATTERS
RELATING TO
FEMININE HYGIENE...

SHE RELIES
ON *your*
RECOMMENDATION

When the question is one of Birth Control, the chemist can safely name Rendells, secure in the knowledge that recent clinical tests have proved the original full-strength Rendell formula to be completely dependable and still unrivalled after 60 years.

It is a significant fact the demand continues to increase. Maintain your share of this important part of your business by always using our latest Chemists' Display Material.

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INDEX (cont.)

Jones, W. H., & Co., Ltd.
Leader Page

Neill, James, & Co. (Sheffield), Ltd. xiii
North British Rubber Co., Ltd. Cover ii

Kearsley, C. & G., Ltd. xiv
Keeling & Walker, Ltd.

Olley, C., & Sons, Ltd. iv
Orridge & Co. Col. Supp.

Leader Page
Kent, G. B., & Sons, Ltd. ... 26
Kittybrewster (Paper), Ltd. xii
Kleenkil Co., Ltd. xxvi
Knox, John (Stoke-on-Trent), Ltd. xxii

Parker-Hale, Ltd. xxvi
Potter & Clarke, Ltd. 31
Progress Shaving Brush Co., Ltd. xxx

Laporte Chemicals, Ltd. viii
Leigh & Sons Metal Works ... iv
Lennon, Ltd. ii

Radiol Co., The xxiv
Rankin Bros. & Sons Leader Page
Reed, A. Elder & Co., Ltd. vi
Rendell, W. J., Ltd. 4
Riley, J., & Sons, Ltd. viii
Robinson & Sons, Ltd. 2
Rooney, Robert A., & Sons, Ltd. 22

Macleans, Ltd. 23
Mandleberg's vi
Marchon Products, Ltd. ix
Mather, Wm., Ltd. x
Matthews, S., & Co., Ltd. xxvii
Medico-Biological Laboratories, Ltd. xv
Midgley & Parkinson, Ltd. ... 20
Milton Antiseptic, Ltd. 1
Mitchell, L. A., Ltd. xx

St. Andrew Mills, Ltd. xxiii
Samuelson, P., & Co. ii
Sandoz Products, Ltd. 11
Scott, A. & R., Ltd. xvi
Scram Products, Ltd. xxi
Sharp & Dohme, Ltd. 30
Shaw, Robert & Co., Ltd. xxii
Sidnick, M., & Co., Ltd. ... xxii
Silvikrin xxviii
Simpkin, A. L., & Co., Ltd. xxii

Moore Medicinal Products, Ltd. xxxi
Morgans Pomade Co., Ltd. xxxii

Sorbo, Ltd. xi
Spa Brushes, Ltd. xxvii
Stretch, Wilfred, & Co. v

The Shannon, Ltd.
Townsend, J., & Sons, Ltd. ... 2
Tye, John, & Son, Ltd. xxi

Universal Metal Products, Ltd. 2

Veno Drug Co., Ltd.
Vines Biocin, Ltd. xx
Virdox

Waide, Thos., & Sons, Ltd. ... 1
Walton, T. H., & Co., Ltd. 2
Ward, Blenkinsop & Co., Ltd. 1
Warrick Bros., Ltd. 3
Webster, Isaac, & Sons, Ltd. Ltd. i
Westbrook Lanolin Co. 3
Westminster Laboratories, Ltd. xx
Whiffen & Sons, Ltd. ... Cover i
Whitakers (Kendal), Ltd.
Williams, Charles & Co.
Wilson & Mansfield, Ltd. ... v
Wilts United Dairies, Ltd. ... 2

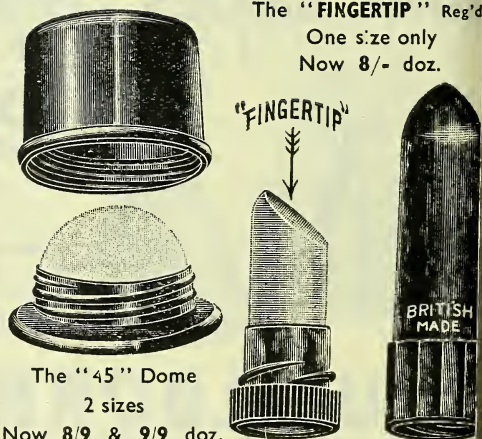
Zems, Ltd. xs
Zimmermann, C., & Co., Ltd. i

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The public demand for Phensic continues to grow. The reason, of course, is that the public has tested and proved the efficacy of Phensic. You can recommend Phensic with every confidence for nerve and muscular pains, colds, chills and 'flu, and be assured of regular repeat business. The winter will bring the usual heavy increase in the demand for Phensic so do not run out of stock. Phensic can be ordered along with Veno's Cough Mixture, Dr. Cassell's Tablets, Germolene and Germoloids, at list prices, less 10% and 2½% discount. High-class showcards now available for all products. Orders despatched by return. Can we help you?

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WORK

Use our plant and experience
Our highly efficient organisation
and specialized facilities are placed
at your disposal

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QUOTATIONS UPON REQUEST

ARTHUR H. COX & CO. LTD.
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SA NEW LINE THAT IS
SELLING WELL!

Display this pack prominently on your counter

KALMS tablets bring a new, scientific approach to the problem of relief of functional menstrual pain, not relying, as is usual, solely on analgesics.

KALMS contain an assimilable iron compound needed by the system at these times, and have a tonic effect, dispelling depression.

Large-scale factory tests have proved the effectiveness of KALMS, and customers like the "self-service" display.

This profitable line is backed by an intensive advertising campaign in the women's magazines, as well as by the name of JOHNSON & JOHNSON.

TRADE PRICE: 9/- per doz. pkts. plus 3/- tax

RETAIL PRICE: 1/4½d. per pkt. inc. tax

Kalms

(PRONOUNCED "CALMS")

A Johnson & Johnson PRODUCT



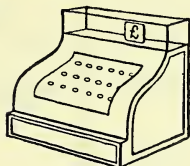
Back to normal

PACK



Radio-Malt appears no longer in strange austerity guise. The familiar glass jars, recognised by countless thousands in all parts of the world, are back again.

BONUS



New terms give you a percentage-return on outlay comparable with 1939 — 5% bonus on 6 dozen 1lb. jars or a combined order for 1lb. and 2lb. jars to the equivalent weight.

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Once again you can rely on prompt deliveries of Radio-Malt. Our stocks now are ample to meet the heavy demand for this delicious vitamin food.

Radio-Malt

*Introduce it to
your customers*



'SLEEK' plastic adhesive strapping has sales appeal. Display it on your counter with the attractive showcards and introduce it to your customers.

The 'SLEEK' Manual gives valuable sales hints and was produced to help you and your staff know all about the product. Ask our representative for copies, or these will be sent on receipt of a post card or 'phone call.

'SLEEK' will give you a quick turn-over. Plentiful supplies are available.

1" x 5 yard spools Retail 2/- each
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'Sleek'

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Boxes of 60
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NEW SIZE—

Tins of 1,000 tablets

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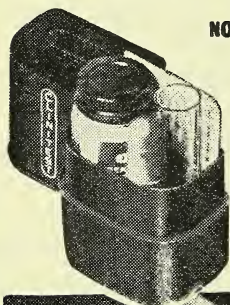
SANDOZ PRODUCTS LIMITED

134 WIGMORE STREET, LONDON, W.1

The new one-minute tablet test for detecting urine-sugar **CLINITEST**

CLINITEST has been approved by the Medical Advisory Committee of the Diabetic Association. Doctors and Diabetics are writing enthusiastic letters about this unique *tablet* test. It is already widely used in America, Canada and other countries, and

is now available in the United Kingdom. CLINITEST is a simple, fast copper reduction test with all reagents compressed in a single tablet. It is based on the same chemical principles involved in the Benedict Test but with the following unique advantages



NO EXTERNAL HEATING

The tablet generates its own heat. (No flame or water bath required).

SIMPLICITY . . .

Only three simple steps involved. (No measuring or reagents).

SPEED . . .

The complete test takes less than one minute.

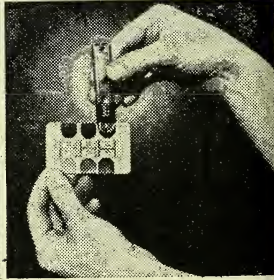
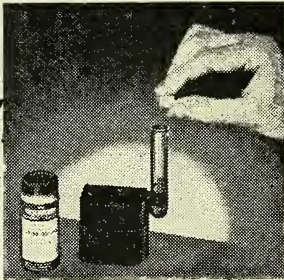
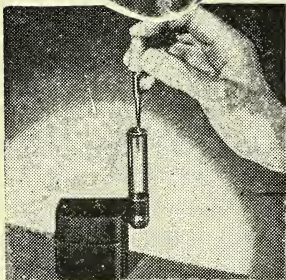
RELIABILITY . . .

CLINITEST is equal in sensitivity and reliability to the other standard copper reduction tests.

CONVENIENCE . . .

All essentials are contained in a hygienic pocket-size case. (No bulky apparatus).

The use of CLINITEST is spreading rapidly among Doctors and Diabetics as a result of advertisements in the Medical Journals, The Diabetic Journal and by personal recommendation



Every Diabetic will be interested in CLINITEST

A supply of illustrated leaflets for distribution to the public with all sales of Insulin and other diabetic products will be sent with all orders.

CLINITEST SET, complete . 12/- Retail } Trade Dis.
REFILL BOTTLE (36 tablets) . 4/- Retail } 33% %



CLINITEST is *not* subject to Purchase Tax

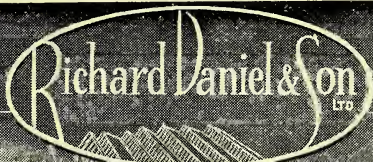
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for the treatment and prevention of
CHILBLAINS

A new and recently introduced «WB» product formulated to meet a widespread need, ADAPRIN tablets contain the Vitamin K analogue (Acetomenaphthone) and Vitamin PP (Nicotinamide) in proportions suitable for the effective treatment and prevention of Chilblains.

Each ADAPRIN tablet contains ACETOMENAPHTHONE B.P. 10mgm. and NICOTINAMIDE B.P. 50mgm. Three to four tablets daily provide relief in most cases within a short period.

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Containers of 25—2/6 each retail
(Supplied only in Units of 1 doz.)

Containers of 100—9/- each retail

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*an offer to
every chemist*

In return for one month's display, this attractive carton (RETAIL VALUE 18/3) will be supplied for a limited period **FREE OF CHARGE** with every trial order for one dozen bottles of



BOON SKIN EMULSION

***The new antiseptic for
constant skin protection***

EXCEPTIONALLY EFFECTIVE AGAINST EVERY TYPE OF SKIN-BORNE BACTERIAL INFECTION (INCLUDING TREATMENT OF CUTS, ABRASIONS, BURNS, INSECT BITES, ETC.) YET ODOURLESS AND PREPARED IN A "VANISHING" BASE.

Manufactured by Boon Doral Ltd., Manchester 2

To : A. M. ASHFORD, LTD.



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Please send me one dozen BOON SKIN EMULSION at a standard trade price of 20/- per dozen plus 6/6d. Purchase Tax together with one **FREE** Display Carton of 6 bottles.

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ADDRESS.....

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'Avloprocil' provides a most reliable and convenient means of administering penicillin. A single injection produces a therapeutic blood level of penicillin for periods of 24 hours, so that one daily dose is adequate for effective treatment.

'Avloprocil' contains the Procaine salt of Crystalline Penicillin in sterile oily suspension (300,000 units per c.c.).

Issued in 10 c.c. vials. Single vials and boxes of 5.

'Avloprocil'

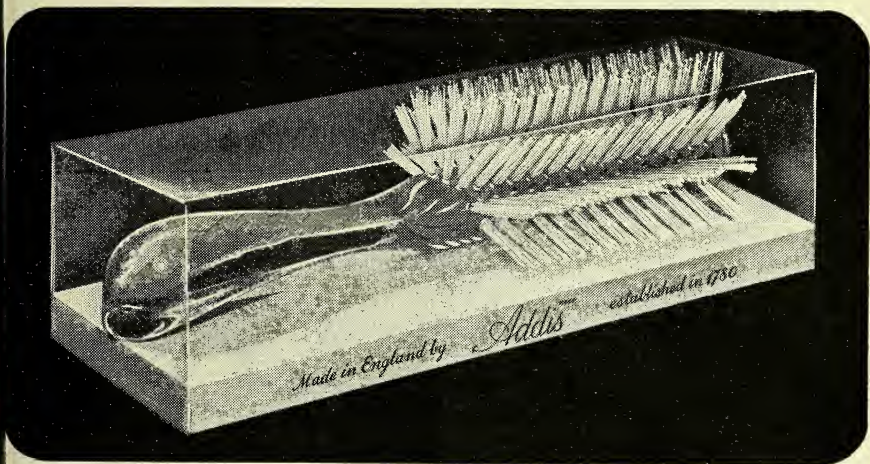
TRADE MARK

IMPERIAL CHEMICAL [PHARMACEUTICALS] LIMITED
(A subsidiary company of Imperial Chemical Industries Ltd.)
MANCHESTER



Ph.329

LOVELIEST-EVER HAIRBRUSH SELLS ON SIGHT!



"It must have been designed by a woman"

SAY ENTHUSIASTIC USERS

HERE, at last, is a hairbrush *especially designed to beautify women's hair*. No wonder the new Addis Beauty Brush is selling so fast that production, already doubled, is being still further increased!

As thousands of women have already discovered, the Beauty Brush *brushes deeper than any hairbrush yet invented*, makes even 'difficult' hair look noticeably prettier.

This lovely new brush has a clear gem-like plastic handle in a choice of three

colours—pink, green or blue. And remember—the Addis Beauty Brush is a line that will *keep selling the whole year round* on its sheer

sound value for money. Retail price 12/6d. (incl. tax); price to you 82/6 per dozen plus purchase tax



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Addis^{INC.} BEAUTY BRUSH

Designed—Packed—Priced to SELL!

ADDIS BEAUTY BRUSHES ARE MADE ONLY BY
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This handsome three-brush display piece is supplied free with every order for six Addis Beauty Brushes.

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FORTY YEARS



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17 Sizes to fit various
types of machines



Adapted for
Headache, Neuralgia
and other powders



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Sole Manufacturers: JEFFREYS, MILLER & CO. LTD (A6500 I.U., D400)
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Malt Extract with
added Natural Vitamins

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which you may be contemplating will need a label which will inspire confidence and help to establish a good and increasing sale. We shall be pleased to hear from you.

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Use U·M·P COLLAPSIBLE METAL TUBES

and fill them by the

U·M·P COLLAPSIBLE TUBE FILLING UNIT

This unit consists of Tube Filling Machine, Tube Closing Machine and Tube Crimping Machine. Please write for particulars and descriptive leaflet.

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34/- PER 1000

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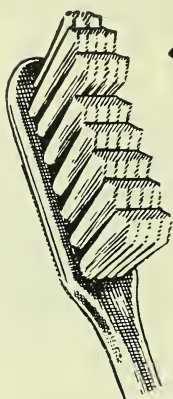
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A new presentation of sodium salicylate in capsule form which obviates all the disadvantages associated with the administration of sodium salicylate in its usual form.

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Each capsule contains 0.50 gm. sodium salicylate and may be taken with complete freedom from nausea or gastric irritation.

P.A.T.A. retail prices

50's	-	-	-	4/10½
200's	-	-	-	17/7½
1,000's	-	-	-	68/2½

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101 Great Russell Street, London, W.C.1.

LUCOZADE

TONIC FOOD BEVERAGE

NEW RETAIL PRICE 2/6 per BOTTLE

PLUS BOTTLE CHARGE OF 3d.

Effective from JAN. 1st, 1949

Production costs continue to rise and it has become necessary to increase the retail price of LUCOZADE TONIC FOOD BEVERAGE to 2/6 per bottle from January 1st, 1949. The bottle deposit charge remains at 3d. Remaining stocks of LUCOZADE labelled 2/3 purchased before December 31st, 1948 can be sold at the price shown on the label. The NEW trade terms are as follows :—

TERMS TO PHARMACISTS

MINIMUM PACK	PRICE PER DOZEN		
	STANDARD WHOLESALE PRICE	PRICE TO DIRECT BUYERS	LUCOZADE IS EXEMPT FROM PURCHASE TAX
1 dozen	22/9	21/6	

REFUND OF BOTTLE CHARGES

The deposit charge of 3d. per bottle should be refunded when an empty bottle, complete with screw stopper, is returned.

EMPTIES

Empty bottles should be returned by pharmacists direct to our factory at Vicars Lane, Newcastle-on-Tyne, 3, using the special consignment note provided with every full case of LUCOZADE dispatched from the factory. The production of LUCOZADE is dependent upon the speedy return of empties complete with screw stoppers and cardboard containers.

FAIR ALLOCATIONS

It is still not possible to supply all the LUCOZADE required but we aim to maintain a fair distribution to meet urgent demands in all districts. Allocations will be made by our representatives when they have the pleasure of calling upon pharmacists. All correspondence should be addressed to :—

MACLEANS LTD.

GREAT WEST ROAD, BRENTFORD, MIDDLESEX.

testimony . .

emotional and otherwise

One can well understand a mother, who is gratified at the excellent progress being made by her baby, writing her appreciation to us. It is the emotion of deep gratitude finding expression in a letter of thanks.

But when a busy doctor or matron, despite multitudinous duties, troubles to do the same, it is indeed proof positive of professional satisfaction with "Lacta" as a Nursery Milk Food. We have many such letters from doctors, doctors' wives, matrons and nursing sisters. In no single instance has such testimony been solicited. It is entirely spontaneous.

"Lacta" which we claim to be "Next best to breast milk" is offered in two types:

LACTA Full Cream Milk Food—enriched with Vitamin D to the extent of 320 units per ounce (800 units per pint)—is for babies from birth of normal development and health.

LACTA (Special) Part Cream Milk Food—enriched with Vitamin D as above and with Soluble iron salts (iron ammonium citrate) to the extent of 1.1 milligrams of iron per ounce. This is specially prepared for delicate babies, to be used in preference to full cream only when prescribed by the doctor.

*If you prescribe "Lacta" we feel confident that you will be satisfied.
It is a United Dairies product and is sold only by chemists.*

Prepared by Wilts United Dairies Ltd., Trowbridge, Wilts.



LOZENGES PASTILLES TABLETS

Wherever you may be!

In whatever part of the country your business may be situated there is a "CENTURION" Representative at your service—eager to assist you in any way possible. "CENTURION" Brand Products are popular with Chemists, and their customers, because it is known that the high standard of quality is consistently maintained. A postcard to the appropriate address below would bring the Representative to you at the earliest possible moment.

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ESTD.



1817

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If you feel the need for expert advice on any form of lighting you are invited to consult the BTH Lighting Advisory Service. BTH Engineers may be able to suggest re-arrange-

ment which will increase efficiency and reduce consumption; points of more than passing interest in view of increased electricity costs. This advisory service is entirely free.



BTH LIGHTING ADVISORY SERVICE

Bridle Path, Watford. Telephone: Watford 7701-8

The British Thomson-Houston Co. Ltd., Crown House, Aldwych, London, W.C.2

MAZDA

THE  LAMP

WITH MAZDALUX EQUIPMENT

14208

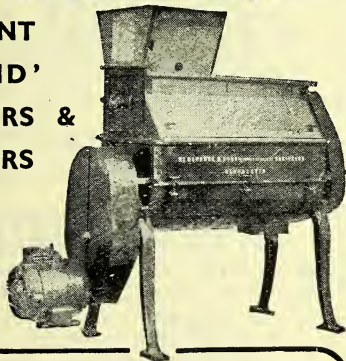
ACCURACY

IS ESSENTIAL
IS ENSURED

WITH

GARDNER'S

PATENT
RAPID'
SIFTERS &
MIXERS



WM. GARDNER & SONS (GLOS.) LTD.
BRISTOL ROAD • GLOUCESTER

Phone: Gloucester 21261 Grams: Gardner, Gloucester
LONDON: 19 Gray's Inn Chambers, 20 High Holborn,
London, W.C.1. Phone: CHAncery 7347.

available again in all colours

BLACK • NAVY BLUE • NIGGER
BROWN • DARK BROWN
BROWN • NUT BROWN • BURNT
STRAW • POPPY • NATTIER BLUE
ROYAL BLUE • SAXE BLUE • ROYAL
PURPLE • PURPLE • JADE GREEN
EMERALD GREEN • HELIOTROPE
GREY • RUST • PINK • OLIVE
GREEN • MYRTLE GREEN • RUBY
OLD ROSE • PRIMROSE

"LUTON"

STRAW HAT DYES

Dull or Glossy Series

Standard size 13/6 per doz. Retail 1/6

Small size . . 10/6 per doz. Retail 1/2

Both less 5% for cash in 7 days

WHITAKER & CO (Kendal) Ltd
DYE & CHEMICAL MANUFACTURERS, KENDAL

*Reduced Facsimile
of current
advertisement*

**Do YOU stock this widely
advertised toilet tissue?**

SILVER SILK Toilet Tissue has been selling well for years in most parts of the country because it is soft yet strong, in a roll that is easy to open. Now, it is being advertised (as shown here) in women's weekly and monthly magazines. Consequently, thousands more women are asking for SILVER SILK, the roll they've "heard good things about."

Reap the benefit from this advertising by getting in a stock of SILVER SILK at once.

Send your enquiry to:—

KITTYBREWSTER (PAPER) LIMITED
Kittybrewster Works ABERDEEN
*Also makers of:— Everest, Med-O-San,
Captis and Tartan Brand Toilet Rolls*

Sorbo

REGD. TRADE MARK THE ORIGINAL SPONGE RUBBER

MEDICAL SUPPLIES

WILL HELP YOUR TRADE

HOSPITAL RINGS
RUBBER SHEETING
SPONGE RUBBER
SUPPORTS, ETC...

SORBO LTD WOKING SURRE

Phone WOKING 960

Grams SORBO SURRE



*For the
Discriminating
Woman*

ENESS

Softer than Silk

SANITARY TOWELS

- ALL SIZES : COTTON AND SOLUBLE ●
- SINGLE TOWELS IN CARTONS ●

Enquiries welcomed
MORRISONS & RALPH LTD.
BARRHEAD, RENFREWSHIRE



A SURE REPEAT LINE!

A SEAGULL



Cumbella
PAPER HANDKERCHIEFS

**NEW
TEAR OFF
HANKIE
PADS!**

**IT WILL
PAY YOU TO**

HANDLE THESE HANDKERCHIEFS!

Here's a fine new line in branded tissues. New in their softness, tear-resistance, absorbent qualities. Women will come back again for 'CUMBELLA'—the super-soft big-value tissue in the tear-off pad... and advertising in the leading *Women's Magazines* will help you sell it! Send now for samples and terms to:

CUMBERLAND PAPER CO. LTD., Cleator Mills, Cleator, Cumb.

Registered Retail Selling Prices: Medium Size 1/-; Large Size 1/6d

THE HOUSE OF HAYWOOD

ESTABLISHED 1830

MANUFACTURERS & DISTRIBUTORS

Everything Surgical

**ELASTIC HOSIERY
BELTS AND TRUSSES
CHEMISTS' SUNDRIES
COTTON DRESSINGS
PROPRIETARY MEDICINES**

**VAN DELIVERY SERVICE
WHOLESALE ONLY**

Enquiries invited:—

Regd. Office and Works

**11, 13 & 23, WARSER GATE
NOTTINGHAM**

Phone:
40488 & 45164

Grams:
APPLIANCE NOTTM.



Obtainable
only from
Retailers

5 for 1/4
INCLUDING
TAX

£221

JAMES NEILL & CO. (Sheffield) LTD.

The things customers say . . .



*I wish I could
always get Cellusan*

*Cellusan are so
carefully made*



*I always feel
happier with
Cellusan*

THE other side of your counter is the place for candid opinions, a fair appraisal of a product. We do know that CELLUSAN Soluble Sanitary Towels have passed the closest feminine scrutiny and have won firm approval for their quality, comfort and reliability. It will pay you well to maintain good stocks—for CELLUSAN customers are regulars. Display will add to your sales of CELLUSAN

LOOPED—IN PACKETS OF 12

TERMS

TRADE - 15/9 per doz. pkts.

RETAIL - 1/9 per packet

a Cellusan product
—therefore always reliable

CELLUSAN

SOLUBLE SANITARY TOWELS

The CELLUSAN CO. LTD.
ESSEX ROAD, LONDON, N.1
CLISSOLD 4761 (4 lines)

*Cellusan Towels conform to the agreed standards of
The Association of Sanitary Towel Manufacturers*

QUALITY &
QUANTITY

Rolls
1/2

Packets
1/1

Satino

TOILET PAPERS

KWICKDRY PAPER TOWELS
In perforated rolls for domestic use.

Super

Soft

The Paper Specialists :

FREEDER BROTHERS PAPER MILLS
BRIMSDOWN, ENFIELD, MIDDLESEX

SURE-SELLING STOCK

OVER 150 YEARS REPUTATION

KEARSLEY'S

THE ORIGINAL
WIDOW WELCH'S PILL

9d. BOX PROFIT by ordering 1 doz. 3/3½ size. Bonus box given on every dozen (13). It pays to push this size.

C. & G. KEARSLEY LTD.
71 Dartmouth Rd., London, S.E.
Est. 1787

KNOW YOUR COSTS

Why be worried with staff and overheads when you send your products to us for packing. Output can be increased or decreased to suit prevailing markets, therefore, you are not committed to hold large stocks or staff and your overheads are cut to a minimum.

Let us quote you

T. J. FAVELL & CO. LTD.
192 Seven Sisters Road, London, N.4
ARCHway 1846

BIOLOGICAL PREPARATIONS

THE QUALITY OF ALL MBL PRODUCTS IS ABSOLUTELY IDENTICAL WITH THAT OF PRE-WAR PREPARATION

Because of our heavy purchases immediately before war broke out. Our stocks are still considerable and the high MBL standard will be fully maintained.

THERE IS NO SHORTAGE OF ANY OF OUR PREPARATIONS

	Retail Prices	CHEMISTS' PRICE					
		Per unit			Per dozen		
		Net	+	Purchase Tax	Net	+	Purchase Tax
ANTIPEOL	(inclusive of Tax)						
INTMENT							
4 oz. tube	7/5	4/2½	+	1/5	50/5	+	16/10
40 gr. "	3/8½	2/1½	+	8½	25/3	+	8/5
20 gr. "	2/1	1/2	+	5	14/-	+	4/8
QUID							
40 c.c. bottle	3/8½	2/1½	+	8½	25/3	+	8/5
OPHTHALMO-ANTIPEOL							
10 gr. Nozzled Tube	3/8½	2/1½	+	8½	25/3	+	8/5
3 gr. " "	1/9	1/-	+	4	11/11	+	4/-
RHINO-ANTIPEOL							
10 gr. Nozzled Tube	3/1	1/9	+	7	21/-	+	7/-
3 gr. " "	1/9	1/-	+	4	11/11	+	4/-
INTEROFAGOS							
Box of 50 ampoules	19/-	13/3½		None	159/7		None
" 10 "	4/3	3/-		None	35/8		None
" 5 "	2/6	1/9		None	21/-		None
DETENSYL							
Box of 500 tablets... ..	43/-	24/-	+	8/-	288/-	+	96/-
Tube of 50 "	4/11	2/8½	+	11	32/4	+	10/10
T. JAMES' BALM							
Box of approx. 2½ oz.	3/1½	1/11	+	7½	22/6	+	7/6
" " 1 oz.	1/7	11	+	4	11/3	+	3/9

Carriage paid on all orders of 1 dozen or £1 and over.
Terms: NETT, Monthly Account.

MEDICO-BIOLOGICAL LABORATORIES LTD., LONDON, S.E.25



"And mind the Hansoms, Horatio"

JOSEPH ALOYSIUS HANSOM's safety-cab was still making a contribution to road safety in the 80's. The automobile was just beginning to splutter its way into history preceded by a man with a red flag. It was in these daring days that Scott's of Edinburgh entered the infant feeding field with M.O.F., but it has changed much since 1887. The same inventiveness and progressive spirit has remained an essential part of Scott's policy. Today, Scott's of Edinburgh provide a whole range of infant foods for mixed-feeding time.

SCOTT'S BABY CEREAL

The ready-cooked baby cereal fortified with essential vitamins and minerals.

SCOTT'S M.O.F.

In use for sixty years. Contains added iron, calcium, phosphorus and vitamin D.

SCOTT'S STRAINED FOODS

AND

SCOTT'S BABY SOUPS

A tempting variety of fruit, fish, meat and vegetable purees which helps to prepare baby's taste-sense for normal food.

SCOTT'S OF EDINBURGH

A. & R. SCOTT LIMITED, COLINTON, EDINBURGH

Distinctive Pack

TARTAN" BRAND MALT EXTRACT with COD LIVER OIL B.P.

Delicious Butterscotch Flavour



1 and 2 lb. Sizes Now Available for Immediate Delivery.

Particulars and Prices of this and other packs on application.

THE ALLIED DRUG & CHEMICAL CO.

ROBERT ST., HAMPSTEAD RD., LONDON, N.W.1. Phone : EUSton 2524



A **NEW** sales winner!

Silvikrin *Lustrefoam* **SHAMPOO**



Big news from SILVIKIN. A brand new seller with a ready made demand! *Lustrefoam* is a soapless shampoo with a difference—a difference women are waiting for—IT WILL NOT, IT CANNOT, DRY THE HAIR. Why? Because it is made from oil. Also, a big selling point, it contains Pure Silvikrin. Retailing at 1/1d. per bottle (two or three shampoos) including tax. Supplied in 1 Dozen Display Outers as illustrated.

Order from your usual wholesaler or for best terms on larger quantities from:

SCOTT & BOWNE LTD • Distributors of Silvikrin Products
Winchester House • Old Broad Street • London • E.C.2

ZUBES COUGH MIXTURE

*Follow this tried
and tested 'formula'
for quick profits*



A Household Name — a quick, pleasant, effective throat and chest easier — at a price within everybody's reach — sales supported by powerful advertising throughout the autumn and winter; that's the "formula" that makes Zubes Cough Mixture such a big profit-winner for the chemist, especially in the winter months. Why not make sure that your stocks of Zubes Cough Mixture will meet the increased winter demand?

ZUBES

COUGH MIXTURE

Retailing at 1/6 and 2/9½

MADE BY F. W. HAMPSHIRE & CO. LTD.,
MANUFACTURING CHEMISTS, SUNNYDALE, DERRY.

MITCHELL

Process Equipment



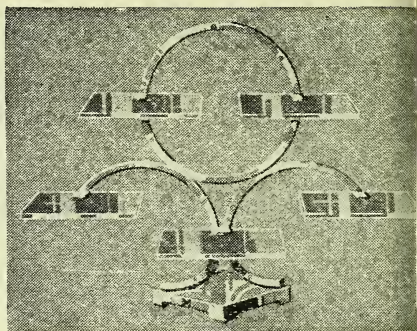
QUICKER
BETTER
CHEAPER

The correct type of mixer—portable or fixed—high, low or medium speed—adjustable shaft and impellers—will do your job more thoroughly, more quickly and with great saving of labour.

Mitchell make all types and will supply just the correct fluid agitator for your specific requirements.

L.A. MITCHELL LIMITED
37 PETER STREET · MANCHESTER 2

MX 21



Glass and Chromium

One of the wide range of window and counter stands. No. 563. 18in. high with five 7in. x 5in. glass shelves.

GUPWELL
DISPLAYTHINGS

A. J. GUPWELL (SHOPFITTERS) LTD
54 BRADFORD ST. BIRMINGHAM

A DELICATE SUBJECT — FOR DELICATE SKINS

The TOTTY-POT

*Rubber Ringed for
— Cushion Comfort*



Trade
Mark
"Totty
Pot"
Patent
applied for

**A NON-CORROSIVE ACID-PROOF
HYGIENIC CHILD'S CHAMBER**

Detachable ring, easily removed for
cleaning purposes

Made of Aluminium
ANODISED IN SOFT PASTEL SHADE

SOLE MANUFACTURERS
J. BILLIG & SONS LTD.,
ESTABLISHED 1899

BILTIN WORKS, FONTHILL RD LONDON W.4.
TELEPHONE ARCHWAY 2753 & 3858

..YOU
*have asked for it...
and here
it is!*



Also available in
3 doz. Display Boxes - 25/6

**NATIONALLY ADVERTISED
ALWAYS IN DEMAND**

- MORE THAN 1,000,000 PACKETS SOLD PER YEAR
- CLEAN, NON-POISONOUS AND SAFE
- HARMLESS TO CHILDREN AND PETS

Display the

Order from your
Wholesaler or direct.

PACKS THAT SELL, SELL, SELL!

GRAM PRODUCTS LTD. (C.D.), Dartmouth Park Hill, London, N.W.5

*It's easy
to remember*

'MECCA'

COUGH PASTILLES



Retail
Price
1/8
per tin
incl. tax



ROBERT GIBSON & SONS, LTD.
MANCHESTER & LONDON

REGULAR DELIVERIES in ALL areas

PROPRIETARY GOODS
Pharmaceutical Preparations
TOILET REQUISITES
Dressings and Cotton Wools
DRUGS AND SUNDRIES

We give an efficient wholesale service,
and you can rely on courteous
and careful attention to
your particular needs.

SIDNICK & CO. LTD.
11-12, FINSBURY SQUARE, LONDON E.C.2
Telephone: MONARCH 5642/3

*Send your enquiries
for*

GLUCOSE BARLEY SUGAR

PLAIN, FRUITS & MINTS
against M.O.F. transfer forms

Medicated Pastilles

T.C.L. FRIARS BALSAM,
CHILDREN'S COUGH IN TINS AND IN BULK

Pellets

LIQUORICE & MENTHOL
BLACKCURRANT & LIQUORICE
PEPPERMINT & LIQUORICE

Vitalised Stomach Powder
containing Vitamin B₁

For Price List, terms & availability
of supplies please send today to:-

A.L. SIMPKIN & CO. LTD.
PHARMACEUTICAL LABORATORIES, SHEFFIELD 6 ENG

JOHN KNOX · JOHN KNOX · JOHN KNOX

1949

SINCERE
GREETINGS
and
BEST WISHES
to all
PHARMACISTS
for a HAPPY and
PROSPEROUS
NEW YEAR

JOHN KNOX (STOKE-ON-TRENT) LTD

Jaynox Works, King Street, Fenton, Staffs.
John Knox (Midland) Ltd., 36-38 Dean Street
Birmingham, 5

JOHN KNOX · JOHN KNOX · JOHN KNOX

ST. ANDREW MILLS LTD.

the speciality paper makers and producers of
entirely **BRITISH MADE** toilet tissues.

Although it is apparent that the general paper supply position has improved, the high grade wood pulps from Scandinavia from which we produce the paper for the various well-known brands of our Toilet Tissues are regrettably still in short supply. We sincerely hope that Scandinavian pulp supplies will shortly improve and exchange difficulties will be overcome so that we will be enabled to fill our converting machine capacity and at long last do something to satisfy the huge demand for our products.

In the meantime we are most grateful to our old customers and to the hundreds of potential customers for their patience and understanding of our unique and most difficult position.

ST. ANDREW MILLS' PRODUCTS include :

		RETAIL PRICE (incl. Pur Tax)
ANDREX	The softest Toilet Tissue—made entirely of the purest materials.	1/0½d per roll
ANDROL	A glazed paper of high quality	1/1½d „ „
STANEX	Absorbent unglazed paper <i>not</i> harsh or bulky crepe.	1/0d „ „
MARVO		9½d „ „
SAMARITAN		8d „ „
ANDREX PAPER	KITCHEN TOWELS (Now free of Purchase Tax)	1/9d „ „
STANEX PAPER	HANDKERCHIEFS (per packet of 45 handkerchiefs) (Now free of Purchase Tax)	7½d

Wholesale only:

ST. ANDREW MILLS LTD.
WALTHAMSTOW, E.17

TELEPHONE:
LARKSWOOD 1014-5-6

NOW IN FULL SUPPLY

THERE is no further need for us to ration chemists' supplies of Radian β —the liniment with a difference—because restrictions on essential materials have eased. You can now order your supplies of Radian β and be sure of prompt delivery. If you have not done so already, send for the attractive "sell-on-sight" display material and particulars of our extremely generous trade terms.

★ Brings pain-easing **ASPIRIN** direct to bruise or sprain—swiftly relieves rheumatic aches and joint pains—is non-oily and non-staining—makes an effective inhalant and alleviates insect bites immediately and effectively.

Professional sample and literature on request.



RADIAN β
A PRODUCT OF

THE RADIOL COMPANY

78, UPPER RICHMOND RD, LONDON, S.W.15

Distributor for Midland area: **JOHN KNOX (Stoke-on-Trent) LTD.**
Other areas from Local Wholesalers or direct from London.

EDME
Autumn Sun
EXTRACT of MALT with COD LIVER OIL
AND FLAVOURING, B.P. Net. 1LB.

EDME LIMITED, IMPERIAL HOUSE, REGENT STREET, LONDON, W.1
Phone: Regent 5563-4, Grams: Edme, Piccy, London
Works: Mistley, Essex

FOR EVERY MONTH OF THE YEAR

"ZEMS" HERBAL LICORICE TABLETS



THE BEST MEDICATED TABLETS FOR
COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.

Supplies may be obtained



from C.F. Wholesale Houses

ZEMS LTD

718-724 Seven Sisters Road, London, N.15

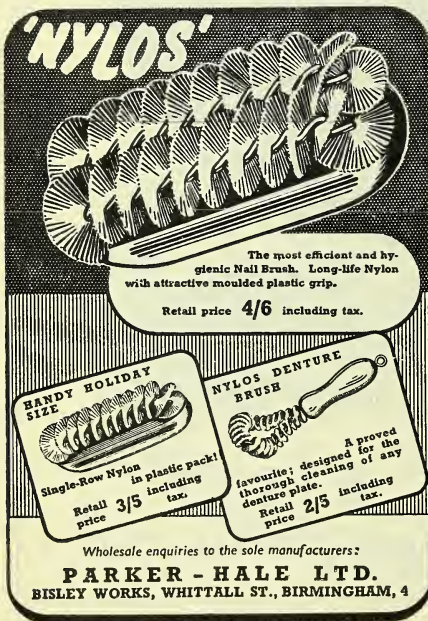
Telephone: STAMFORD HILL 6658-9



Michel

Exquisite Charm

SOLE DISTRIBUTORS U.K.
ANGLO-AMERICAN DISTRIBUTING CO., LTD.
DANIEL MARY HOUSE, 266, STRAND, LONDON, W.C.2



'NYLOS'

The most efficient and hygienic Nail Brush. Long-life Nylon with attractive moulded plastic grip.

Retail price **4/6** including tax.

BANDY HOLIDAY SIZE
Single-Row Nylon in plastic pack! Retail price **3/5** including tax.

NYLOS DENTURE BRUSH
A proved thorough cleaning of any denture plate. Retail price **2/5** including tax.

Wholesale enquiries to the sole manufacturers:
PARKER - HALE LTD.
BISLEY WORKS, WHITTALL ST., BIRMINGHAM, 4

TOILET ROLLS

Best quality Medicated Tissue. Minimum order—1 gross. Price 108/-. Including Purchase Tax

INTERSEAS PRODUCTS, 2 Middle St., E.C.1

KLEENKIL DDT FLY & MOTH PAPERS 3

AND INSECT POWDERS

Samples and full details from:

THE KLEENKIL COMPANY
11 Kenton Gardens, Harrow, Middx.
Export Enquiries Invited

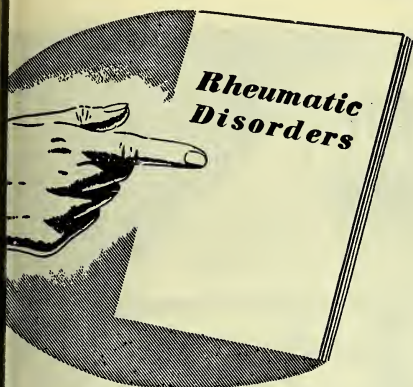
GLYCERYL MONOSTEARATE

Guaranteed Food and Drugs Quality

REGULAR SUPPLIES AVAILABLE

Samples and quotations upon request

The Faylene Manufacturing Company
15 Queens Court, Lower Briggate, Leeds
Telephone 22594



NEW BOOKLET

FOR RHEUMATIC SUFFERERS

This is an authoritative treatise on Rheumatic complaints written in language that the layman can easily understand. Copies are now being issued in both the 5/6d. and 26/5d. size Curicones Cartons, and supplies are also available to chemists FREE on request.

Attention is being made of this booklet in our National Advertising and readers are invited to ask their chemist for a copy. Make sure you have a supply of these booklets on hand.

If you require one of these Curicones booklets, please notice to comply with a request from a chemist, please take one from a CURICONES CARTON.

DON'T BE A
HUMAN BAROMETER

CURICONES

TRADE MARK

TRADE MARK

TRADE MARK

TRADE MARK

TRADE MARK

TRADE MARK

TRADE MARK

TRADE MARK

TRADE MARK

TRADE MARK

TRADE MARK

TRADE MARK

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TRADE MARK

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TRADE MARK

TRADE MARK

TRADE MARK

Weather-Indicating Novelty Showcards

Size 8 x 12 (approx.) Printed in bright, attractive colours. An excellent novelty and surprisingly accurate. So simply send us your name and address to obtain one.

P.A.T.A.

CURICONES

1949

AND OUR PLANNED POLICY!

We wish to inform our present and prospective Customers that it will be our policy to keep to our present standard of efficiency, and with additional factory space and plant, improve on our present high standard of service.

NEW DRUG CARTON DESIGNS

TABLET DISPENSING CARTONS

(in four sizes)

LABELS of every DESCRIPTION

SHAMPOO POWDER ENVELOPES

and every type of printing required for the Chemists and Allied trades.

**YOUR ENQUIRIES WILL
BE APPRECIATED**

ALF HARRISON & SONS LTD.

The Progressive
CHEMISTS' PRINTERS

BURLEY ROAD, LEEDS, 4

Phone :
LEEDS 52668/9

Grams :
"IDEAS" LEEDS

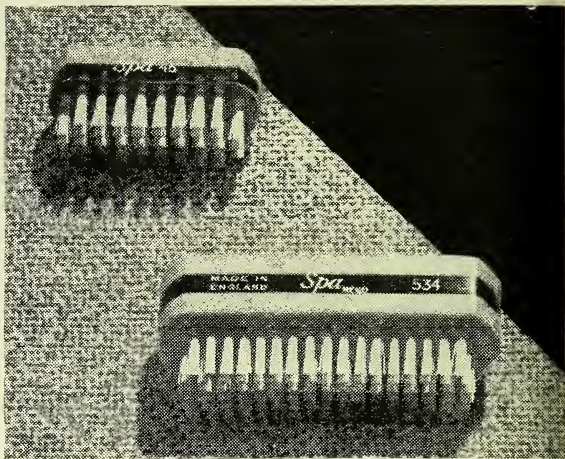
John Matthews & Co. Ltd., 19/21 Farringdon St., E.C.4



We confidently recommend the two SPA Brushes pictured here as ready sellers.

You, on your side, can recommend them to your customers with equal confidence for their reliability. The name SPA on the brush is your guarantee—and theirs.

These SPA Brushes do not linger on your shelves. They move fast. And there's a good profit for you every time one goes over the counter. Supplies are now available.



Every Spa Toilet Brush is a P.A.T.A. line

SPA BRUSHES LTD. Freeman Works, Chesham, Bucks

TWO CALFOS products of EXCEPTIONAL value

For samples and further
information please write to:

1

POWDER

Calfos Powder is sterilized bone calcium phosphate, prepared without the use of chemicals, and having calcium and phosphorus present in natural ratio. It is pure and of constant formula. Leading British manufacturers have proved Calfos Powder to be outstandingly successful for

FOOD FORTIFICATION

2

TABLETS

Calfos Tablets have two great advantages over ordinary calcium tablets. Firstly—they are more easily assimilated, and more effective, because they contain calcium and phosphorus in *natural* proportions. Secondly—they are palatable, being pleasantly lemon-flavoured. So order now. There is a ready sale to

MOTHERS & CHILDREN

CALFOS LIMITED · IMPERIAL HOUSE · KINGSWAY · LONDON · W.C.

TYE *a knot ...* *remember*

Now is the time to order

TYEVITE VITAMIN CAPSULES

- EACH CAPSULE CONTAINS
HALIBUT LIVER OIL M.3
(Vit. A 4500 i.u., Vit. D 600 i.u.)

+ PLUS +

Vitamin B1 (Aneurin hydrochloride)	...	0.3 Mg.
Vitamin B2 (Riboflavin)	...	0.5 Mg.
Vitamin C (Ascorbic Acid)	...	15.0 Mg.
Vitamin E (Tocopheryl acetate)	...	0.15 Mg.
Calcii Phos.	...	20.0 Mg.
Ferri Phos.	...	100.0 Mg.



TYEVITE IS ECONOMICAL

One capsule a day is the recommended prophylactic dose.

A 5/- Tin contains 25 days supply

TYEVITE IS PROFITABLE TOO

One Display carton of 12 Tins costs you 40/- BUT

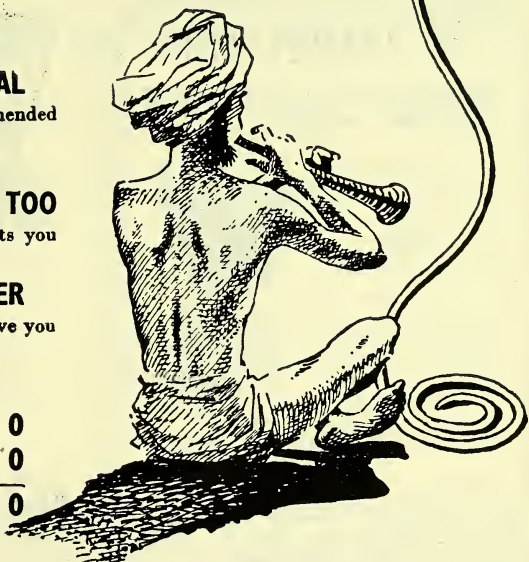
FOR CASH WITH ORDER

We allow you 2½% discount and give you

A BONUS TIN

in every dozen

Nett Outlay	£1 . 19 . 0
13 Tins sell for	3 . 5 . 0
PROFIT	£1 . 6 . 0



One of the range of TYE BRAND products made by John Tye and Son Ltd., London, N.7
Manufacturing Chemists and Capsule Makers for over a Century

THE *Modern* ANTACID..



Magtriz Tablets are an effective combination of Magnesium Trisilicate and Magnesium Hydroxide and provide prompt relief and prolonged control in all cases of Hyperchlorhydria as recommended by the Medical Profession.

MAGTRIZ DIGESTIVE TABLETS

2 sizes, 7½d. and 1/6d.
Trade 4/- and 10/- per doz. plus P.T.
Both sizes packed in attractive outers.
Small size 2 dozen. Large size 1 dozen.



WESTMINSTER LABORATORIES LTD., Chalcot Road, London, N.W.1 Tel.: PRImrose 3395/6/7

PATENT

The LONDON SERIES

Famous London Place Names denote a new VULFIX Series of luxury-type Shaving Brushes at a modest price range.

Our London office will send on request copies of a fully illustrated Brochure, an artistic souvenir of some of London's Famous Landmarks



PROGRESS SHAVING BRUSH CO., LIMITED

MOTTRAM STREET, STOCKPORT

Telephone: STOCKport 2147

49 LEADENHALL ST., LONDON, E.C.3

Telephone: ROYal 2857



Heading for
Speedier Sales!

News! Increased advertising is spreading the story of BIOCRIN—the proved Shampoo-Reconditioner. Through more magazines more women are learning about this health-and-beauty treatment.

A Large Profit Margin and Regular Clientele For You!

Retail Sizes 18/6 and 30/- per dozen (plus 33½% tax) retailing at 3/- and 5/- each

Biocrin pomade shampoo

A product of Vine's Biocrin Ltd., London, W.2.

Codasphen
EXTRA RAPID
FOUR-FOLD COMPOUND ANALGESIC TABLETS
Give quick relief from
HEADACHES · NEURALGIA · MUSCULAR PAIN
COLD · RHEUMATISM
2¢ (INCLUDING PURCHASE TAX)

DISPLAY THIS
ATTRACTIVE OUTER
PROMINENTLY ON
COUNTER AND
MAKE SALES

Codasphen
THE FOUR-FOLD COMPOUND ANALGESIC TABLETS

ADVERTISING INCREASED COMMENCING JAN. 1st, 1949

Our first advertising campaign to the public started Sept. 1st, 1948 and proved an immediate success. From Jan. 1st, 1949 we have decided to make Codasphen even more widely known, and we hope every chemist will co-operate in making Codasphen available to everyone who asks for it by name. The theme of this advertising is

still "*Four analgesics—Codeine Phosphate, Aspirin, Phenacetin and Caffeine—better than one.*"

Display the attractive Codasphen outer (containing 1 doz. artistic aluminium tubes), and our show-card, prominently, and so link up your business with our advertising.

MOORE MEDICINAL PRODUCTS LTD
ABERDEEN LONDON OFFICE: 64 GLOUCESTER PLACE, W.1 LONDON
WELBECK 5718/9

Blue Orchid Perfume



Created by
Delavelle

Price list showing profitable quantity discounts on this quick selling Series will be sent on application to:-

Delavelle

ESTABLISHED 1880

38/46 ORSMAN ROAD, LONDON, N.1

Telephone No. Clerkenwell 6066

Sole Agents in Northern Ireland:

JAY-BEE PRODUCTS (BELFAST) LTD.
7-13 Fleming Street, Belfast

MORGAN'S Pomade ENDS GREY HAIR

THAT'S WHY IT SELLS

The reliability of Morgan's Pomade established over 70 years ago, brings steady business. Generous trade terms make it, and Marie Antoinette Egg Julep Shampoo Powder, worth while to stock.

Full list, wholesale prices and terms on application to: Morgan's Pomade Co. Ltd., 1-7 Grenville Road, LONDON, N.19



Net News!

These 3 attractive, new envelope packs are now available for the Home Trade



Packed in display outer, in assorted colors if required. Counter display also available for the well-known Venus Cap Net. Your Wholesaler has plentiful supplies.

Wholesale & Export: Robert Shaw & Co. Ltd., Nottingham

BiSoDoL

TRADE MARK

ANTACID DIGESTANT

REVISED PACKS

The pack designs for this fine, professionally detailed, antacid have now been revised. Labels, tins and cartons, both for Powder and Tablets, have been standardised.

The recognition value by the Public is improved; the well-known yellow and blue, although strengthened, are still the basis of the design and the increased display value will be a

helpful point of sale incentive to the Public.

The formula of 'BiSoDoL' is one which every Pharmacist can approve; it is being continuously brought to the notice of Doctors, Dentists, Nurses and Welfare Departments by finely produced mailing pieces and samples. The widespread recommendation of 'BiSoDoL' is shown by an increasing and developing public demand.



INTERNATIONAL CHEMICAL COMPANY LIMITED
CHENIES STREET, LONDON, W.C.1

Question of the Hour

**"what can you
recommend for a
Bad Cold"**

During the winter months, pharmacists are constantly being asked to supply a good remedy for an existing cold. Thousands of chemists recommend Serocalcin with confidence in the knowledge that it gives consistently satisfactory results in the treatment of the common cold.

The demand for Serocalcin is great, but stocks are ample at present. Please order early and thus ensure a good delivery service.

Pharmacists are reminded that the sole selling agents for Serocalcin in the United Kingdom are J. C. Eno Ltd., Watford, Herts. (Watford 7761) to whom all orders and enquiries should be sent.



SEROCALCIN

PATA

FOR THE PREVENTION AND TREATMENT OF COLDS

HARWOODS LABORATORIES LTD WATFORD HERTS



Fine **CHEMICALS**

Burroughs Wellcome & Co. offer a selected range of fine chemicals on particularly advantageous terms to bulk purchasers.

Each is the product of long manufacturing experience and strict analytical control, and represents the highest attainable standards of quality and purity. Further details and quotations will be supplied on application to Bulk Chemicals Section, 183-193, Euston Road, N.W.1.

ADRENALINE	HOMATROPINE HYDROBROMIDE
ADRENALINE BITARTRATE	HYOSCINE HYDROBROMIDE
BENZAMINE HYDROCHLORIDE	PETHIDINE HYDROCHLORIDE
CARBACHOL	STILBÆSTROL
CINCHOPHEN	STILBÆSTROL DIPROPIONATE
EMETINE HYDROCHLORIDE	OUABAIN
ERGOMETRINE	K-STROPHANTHIN
ERGOMETRINE MALEATE	SULPHAGUANIDINE
ERGOTOXINE ETHANESULPHONATE	THYROXINE-SODIUM
HISTIDINE MONOHYDROCHLORIDE	d-TUBOCURARINE CHLORIDE



BURROUGHS WELLCOME & CO.

(THE WELLCOME FOUNDATION LTD.) LONDON

Associated Houses:

NEW YORK MONTREAL SYDNEY CAPE TOWN BOMBAY SHANGHAI BUENOS AIRES CAIRO

An Ideal GIFT LINE!

Behind the "Allure" Perfume Hairbrush is the heavy and sustained advertising at home and abroad which for years has been building up to this moment when, for the present, we can fulfil all your orders.

The "Allure" Perfume Hairbrush is advertised by Showcards on all London Underground trains and on slides in cinemas throughout Great Britain.

Give these brushes prominent display and always show one brush apart as this calls attention to the fact that it is not an ordinary brush.

PRESS ADVERTISEMENTS
REGULARLY APPEAR IN

Picture Post
Tatler & Bystander
Punch
Sketch
Vogue
Good Housekeeping
Lady
and many other journals



G. B. KENT & SONS LIMITED

24 OLD BOND STREET : LONDON : W.1

BY APPOINTMENT
TO THE ROYAL HOUSEHOLD

'Phone: Regent 1471/2/3. Tel.: Tricho, Piccy, London



Johnny Bunny

CHILDRENS
COUGH
PASTILLES



Limited Supplies Available

THE BRYNN MANUFACTURING CO. LTD.
ASHTON-IN-MAKERFIELD
LANCASHIRE



Esbron LUNG TONIC & TROCHES

For Coughs, Colds, Chest and Throat Ailments and also for Asthma and Bronchitis.

It is advisable to get stocks in now—be prepared for the demand following advertisements in the daily papers.

9/- per doz. Retail 1/4½ each.
3 doz. lots 8/9 per doz.

BROOK, PARKER & Co., Ltd.
ASHFIELD, BRADFORD

THE HOUSE OF *FIRSTS*

First with make-up for the motion picture studios

First to feature cosmetics as "make-up"

First to feature Hollywood screen stars in cosmetic advertising

First with Colour Harmony Make-up

First to classify and originate the name "brownette"

First to introduce "Personalized" Christmas Gift Sets for Blondes, Brunettes, Brownettes and Redheads

First to introduce a new and utterly different cosmetic fashion — "Pan-Cake" Brand Make-up

First to introduce a new make-up for Technicolour motion pictures

First to introduce the new lipstick idea — 3 shades for each type—Clear Red, Blue Red and Rose Red

First with 3 rouge shades for each type — new pastels in Clear Red, Blue Red and Rose Red

First to originate new exclusive patented lipstick colour formula

First with the new colour tones — Amber — in "Pan-Cake" Brand make-up and Face Powder. Colour harmonized to natural skin tones.

Max Factor HOLLYWOOD

MAX FACTOR HOLLYWOOD & LONDON (SALES) LTD
16 OLD BOND STREET, LONDON, W.1

Firm Favourites!

with every member of the family

CUTICURA PREPARATIONS

(MEDICINAL AND TOILET)

SOAP . OINTMENT

TALCUM POWDER . SHAVING STICK

These grand aids for skin-care have been giving confidence and satisfaction for over 65 years. Profits are good — Advertising consistent and widespread. Sales-promoting window displays always at your service.

The following attractive products, each with a universal appeal, will shortly be added to the popular Cuticura Range:

HAND CREAM . BABY OIL

SHAVING CREAM . LIQUID ANTISEPTIC

AFTER-SHAVE LOTION

British Distributors: **NEWBERY & PHILLIPS LTD.**

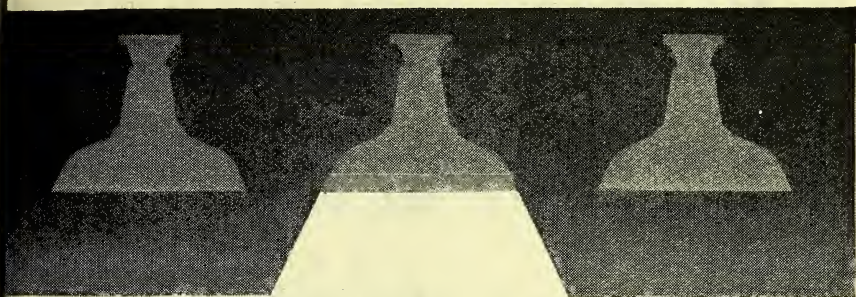
203, Victoria House, Southampton Row, London, W.C.1

TELEPHONE: HOLBORN 1564

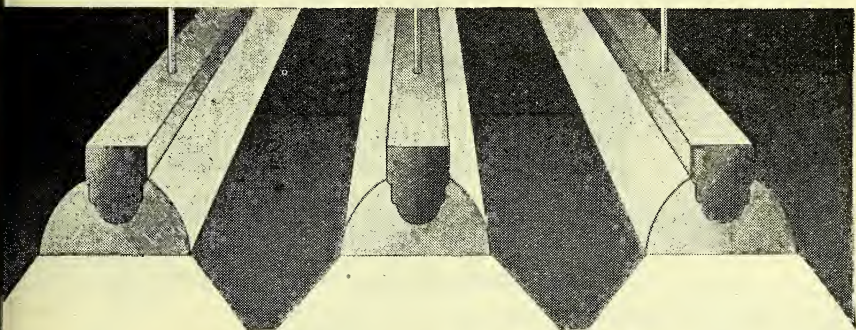
for

THE POTTER DRUG & CHEMICAL CORPORATION

205-207, Victoria House, London, W.C.1



TWO WAYS TO SAVE CURRENT



which is your way?

Switch off some of your lights or switch on to fluorescent lighting. This is the choice to-day when every business user *must* cut his electricity consumption. Crompton fluorescent lighting takes only one third of the current required by ordinary lighting. You can cut down current consumption this way without losing light or visual efficiency. Ask a Crompton

Lighting Engineer to look over your premises and tell you in advance how much current *you* can save.

CONSULT THE
Crompton
 LIGHTING SERVICE

CROMPTON PARKINSON LIMITED, CROMPTON HOUSE, ALDWYCH, LONDON, W.C.2
 Telephone: Chancery 3333.
 Telegrams: Crompark, Strand, London

now!

'CREMOMERAZINE'

palatable suspension
of

SULPHAMERAZINE

readily acceptable to children and adults

'CREMOMERAZINE' is a pleasantly flavoured and extremely palatable suspension of Sulphamerazine, which has been reduced to a fine state of subdivision thereby ensuring rapid absorption into the blood stream.

'CREMOMERAZINE' presents the clinical advantages of Sulphamerazine, rapid absorption, slow excretion, reduced toxicity and less frequent dosage, in a form that is ideally suited for administration to young children.

'CREMOMERAZINE' contains in each teaspoonful the equivalent of one tablet (0.5 Gm.) of Sulphamerazine.

'CREMOMERAZINE' is indicated in the treatment of meningococcal, pneumococcal, haemolytic streptococcal and gonococcal infections and in rheumatic fever prophylaxis.

'CREMOMERAZINE' is supplied in 4 oz. and 16 oz. bottles, listed at 9/- and 33/- respectively. Exempt from Purchase Tax and subject to 33½% discount. Informative literature gladly forwarded on request.

Supplies may be obtained direct or through your usual wholesaler.



SHARP & DOHME LTD., HODDESDON, HERTS



Potter's

IODINE



CONTINUOUS RESEARCH

& IODIDES

Progress, and with it experience, is necessary to give confidence to customers during these days.

We have made that progress, and gained with it that experience which enables us to give the best possible service to all in the trade.

POTTER & CLARKE LTD.

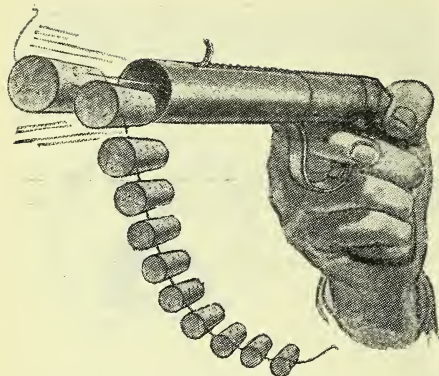
60-64 ARTILLERY LANE, LONDON, E.1

BIShopsgate 4761

77 DANTZIC STREET, MANCHESTER

BLAckfriars 8734





Quick-fire dispensing— with the Armstrong cork string

WHATEVER width the bottle-neck—and however great the hurry—Armstrong's String of Standard Corks has the size which fits accurately, effortlessly and instantly. No need now to waste time rummaging among a drawerful of miscellaneous corks, or measuring the aperture of the bottle. Armstrong's Cork String gives a full range of sizes, each clearly numbered. The right cork for the job can be selected first time by testing on the string: then it's just a matter of going straight to the bin where that particular size is kept.

No need, either, to order by guess-work, or by posting bottles. Simply order by number for size—and by name for quality. As useful for wholesalers as for retailers, the Armstrong String of Standard Corks ensures that neither a production line nor a customer is ever kept waiting.

MAY WE POST ONE TO YOU FREE? There are five quality-brands: Gold leaf, Silver leaf, Blue leaf, Green leaf, N.H.I.

Note to Retailers: Samples of each of these brands, together with quotation for various sizes, can be obtained from:

ARMSTRONG CORK COMPANY LTD

KINGSBURY, LONDON, N.W.9

Tel: Colindale 7080

Scottish Branch: 5 OSWALD ST., GLASGOW, C.1

Tel: Central 5703



The Complete WHOLESALE SERVICE

The Service Wholesaler has always been the bulwark of safety for the Retail Druggist. His creed is: Buy what you want; omit what you cannot sell.

The Service Wholesaler is an economic force pitted against waste and excess stocks. His volume must come through the service which he alone can render.

No method offers a better opportunity to meet modern merchandising problems than that of buying as needed through your Service Wholesaler.

"Let us be your Warehouse"

Ferryman

OF SOUTHAMPTON

Suppliers of Proprietarys, Drugs and Galenicals, Sundries and Packed Pharmaceuticals.

HERBERT FERRYMAN, LTD.

Cobden Bridge, Southampton

Telegrams:
Ferryman, Southampton.

Telephones:
75641 (5 lines).

Handmaid

protects hands
against the dirt
of daily work

Samples and prices
will be sent gladly
on application to
the

WESTBROOK
LANOLIN CO.
Subsidiary of
Woolcombers Ltd.
BRADFORD





an
**Outstanding
Showcard**
for an
**Outstanding
Product**



In these damp, cold winter days thousands of people need 'Menthofax' to ease rheumatic pain. A prominent display of this product, featuring the striking new showcard, will bring profitable business to your pharmacy. 'Menthofax' contains 10 per cent of menthol and 50 per cent of methyl salicylate. It is packed in attractive display outers each holding one dozen jars. Retail price: 2/3 plus 7d. tax.

'Menthofax'
COMPOUND METHYL SALICYLATE OINTMENT



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) **LONDON**

WARRICK BROTHERS, LTD.

*Manufacturers of Fine Products
for the
Discriminating Pharmacist.*

**PASTILLES
LOZENGES
TABLETS
CAPSULES
OINTMENTS
PILE PREPARATIONS**

*You can always depend on the
high standard of quality
that is consistently maintained.*



WARRICK Bros. LTD. NILE ST. LONDON, N.1.

The



CHEMIST AND DRUGGIST

for RETAILER—WHOLESALE—MANUFACTURER

JANUARY 15, 1949

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

6 copies 1/- each. Annual subscription, which includes The Chemist and Druggist Diary and Year Book, 30/-

No. 3595

CONTENTS

Volume CLI

Banana "Cure" for Snake Bite ...	79	Marriages	70
Births	70	Ministry of Health Bulletin...	86
Books, New	89	Move to End J.I.C. Agreement ...	75
Business Changes	68	News of the Week	65
Coming Events	90	Overseas News	67
Company News	68	P.A.T.A.	73
Correspondence	91	Personalities	71
Deaths	70	Pharmaceutical Society of Great	
Dressings Prices Reduced	74	Britain:—Council Meeting ...	84
Editorial Articles:—		Plant Growth Regulators ...	76
Statistics of Distribution	81	Retailers' Census of Distribution ...	83
Pharmacy's New Monthly	82	Secretaryship of the Society ...	82
Fifty Years Ago	96	Topical Reflections	69
Inquests	90	Trade Marks	96
Irish News	67	Trade Notes	72
Legal Reports	74	Trade Report	92
Local News	67	Transport Claims	78

NEWS OF THE WEEK

Turkey: A Market for Insecticides.—The scope and importance of the Turkish market for British insecticides is given in recent report published by the Board of Trade Export Promotion Department Special Register Service of Information (M/1627/I.D.5). The need for publicising when introducing new insecticides to the market is emphasised. Turkey's agricultural crops are diverse, and pests and diseases numerous. The report lists principal importers of insecticides and similar preparations.

Monopolies Commission Appointed.—The Board of Trade has appointed the Monopolies and Restrictive Practices Commission, with Sir Archibald Carter as chairman and seven other members, to investigate matters referred to it by the Board of Trade under the Monopolies and Restrictive Practices (Inquiry and Control) Act, 1948. Correspondence should be addressed to the Assistant Secretary, C.I. Division, Board of Trade, Millbank, London, S.W.1. The Commission

is expected to be ready to function by the beginning of March.

Limitation of Dentists' Earnings.—The Minister of Health, in accordance with a statement made by him on December 9 (see *C. & D.*, 1948.II.749), has made a Regulation (S.I., 1948, No. 2803) providing that, from February 1, dentists' earnings under the National Health Service are to be paid in full up to £4,800 gross in a calendar year, but that any earnings above that figure are to be reduced by half. The Regulation permits the full rate recommended by the Spens Committee to be earned on a basis of forty-two hours' chair-side work per week (against the thirty-three hours originally suggested by the Spens Committee). The Minister thinks that any further extension of hours would lead to inefficiency.

Tax on Temporary Premises.—The London Chamber of Commerce has taken action to ventilate complaints from members who have been obliged to erect temporary premises because their original

properties were destroyed by enemy action. A resolution has been sent to the Chancellor of the Exchequer "That the London Chamber of Commerce views with concern the continued exclusion from tax relief in respect of depreciation of temporary commercial premises erected in areas which have suffered extensive war damage and urges that legislation be introduced for the purpose of removing the hardship which is at present being suffered by the owners of such premises." [Under the provisions of the Income Tax Acts, depreciation allowances for income-tax purposes are not applied to certain types of commercial premises, including warehouses, offices, etc. Owners of such properties who have been compelled to erect temporary premises are thus doubly penalised, owing to the limited life of the premises and consequent heavy depreciation].

Draft Standards for Medicine Spoons.

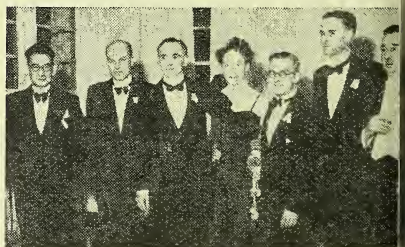
—The British Standards Institution has issued a revised draft of British Standard 1348 (measuring cups and spoons). Exception was taken to the previous draft by pharmaceutical spokesmen on the ground that the proposed standards would lead to overdoses if regarded as measures for medicines. The new draft differentiates between spoons for kitchen use and spoons for medicines. The standard recommended for a medicinal tablespoon is 240 minims and for a medicinal teaspoon 60 minims. Where practicable the colour red is to be reserved for the medicine spoons, which must remain unaffected after immersion for thirty minutes in each of a number of specified solutions.

Joint Pricing Committee Representation.

—The management committee of the Executive Councils' Association (England), at a meeting held in December 1948, discussed a resolution (passed at the first annual meeting of the Association) that, in future, the basis for allocating votes to groups of Executive Councils in appointing representatives to the Joint Pricing Committee for England should be the numbers of prescriptions priced for each Executive Council area. The committee decided that groups were free to vote in that way if they so wished. [Under S.I., 1948, No. 1301, thirteen of the eighteen members of the Joint Pricing Committee for England are appointed by Executive Councils. Each of eleven Councils or groups of Councils appoints one member; the south-eastern group appoints two.

The term of office of present memberspires on March 31, 1950. Their method of appointment is determined by the association].

Industry and Profits Tax.—The Federation of British Industries has submitted, at the request of the Chancellor of the Exchequer, a memorandum in which it sets out its objections to the present profits tax. The burden of the tax, it states, falls so on the ordinary shareholder. It constitutes a burden on corporate savings; encourages the financing of companies by debentures, income notes, or loans from banks or institutions, interest on which is regarded for tax purposes as an expense; and exposes businesses financed by borrowing to failure at times of adverse trading experience. The following alternatives have been submitted in order of priority: (1) To abolish the profits tax completely and to restrict the tax on corporate earnings to the general income tax; (2) to restrict the profits tax to a distribution tax on ordinary and participating non-cumulative preference dividends; (3) to restrict the profits tax to distributed dividends and to give an option to the Crown either to levy the general distribution rate on equity dividends as included above (which is, 25 per cent. or such lower rate as may be fixed), or alternatively to levy a lower rate (say, 10 per cent. on the sum of the equity dividend and the preference dividends). The option would operate where preference dividends are one-and-a-half times as much as ordinary dividends.



WALLASEY ASSOCIATION OFFICERS. A group of officials and members of the Wallasey Pharmacists' Association photographed at the Association's New Year carnival dance on January 5. Left to right: Messrs. G. H. Leggett, P. Thompson (treasurer), and H. T. Speer (secretary), Miss B. Salisbury, Messrs. A. R. Alderson (president), H. S. Quayle (vice-president), and S. Hudson (vice-president).

LOCAL NEWS

Weston-super-Mare Film Show.—Four films, including "Spinal Anæsthesia" and "Take Thou" were presented by Evans Medical Supplies, Ltd., at a meeting of the Weston-super-Mare Pharmaceutical Association recently. The meeting was attended by representatives of the medical and nursing professions.

Welsh N.H.S. Statistics.—The Welsh Unit Pricing Committee estimates that 1,000,000 National Health Service prescriptions were submitted from July to December, 1948 (against 3,500,000 for the whole of 1947). The average cost of a prescription was 2s. 8d. in July and 1s. 9d. in August (against 1s. 8d. for the whole of 1947).

Co-op Shops on New Estates.—Objections raised previously to the allocation to the local co-operative society of shops on municipal housing estates at Wolverhampton have recently been taken a stage further by the decision of the Wolverhampton Town Council to seek a ruling from the Minister of Health on whether councillors who are members of co-operative societies should be barred, under the Local Government Act, 1948, from voting on resolutions affecting co-operative trading.

Southampton Talk on N.H.S.—Mr. F. Wilson (a member of the Pharmaceutical Society's Council), addressing the Southampton Branch of the Society on December 13, 1948, suggested that chemists might in future fall into two groups: those who encouraged dispensing, and those who preferred to concentrate on general business. A factor that would largely determine the number of chemists who would concentrate on dispensing was the availability of liquid capital, which depended on how long chemists had to wait for final payment of N.H.S. accounts. He understood that chemists in the South-western area had still to receive final payments for National Health Insurance dispensing. Such delays were bad for the profession and forced many chemists to encourage counter sales rather than dispensing. Mr. Wilson stressed the need for giving a good service; chemists had lost the privilege for which they had long fought and it was up to them to see that they did not lose it. He advised hospital pharmacists who were having difficulties over supplies to keep in close touch with the authorities.

OVERSEAS NEWS

Paris Pharmacies Kept Open.—Chemists shops in Paris were ordered by the police to stay open on Sunday, January 9, to cope with the extra dispensing caused by an influenza epidemic.

Mediterranean Health Conference.—About twenty countries (including Britain) with interests in the Eastern Mediterranean area have been invited by the World Health Organisation to send representatives to a conference in Cairo beginning on February 7. The conference will discuss the establishment of a regional office. The recommendations of the conference will be presented to the third session of the World Health Organisation executive board later in the month.

Pacific Science Congress.—The Royal Society is sending six Fellows as delegates to the seventh Pacific Science Congress to be held in Auckland and Christchurch, New Zealand, in February. Among them are Sir Norman Haworth (a former professor of chemistry and director of the department of chemistry, University of Birmingham), Professor H. D. Kay, C.B.E. (research professor of biochemistry, University of Reading), and Professor C. M. Yonge (regius professor of zoology, University of Glasgow).

Price-lag Losses in Australia.—According to the president of the Australian Pharmaceutical Services Guild, chemists in the Dominion lost thousands of pounds owing to a lag between dates of operation of new wholesale and new retail prices of drugs. The wholesale prices of drugs rose on November 1, 1947, when Federal Government subsidies were withdrawn, but chemists were permitted to raise retail prices only on February 1, 1948. The Prices Branch had assumed that chemists would have the stocks they had bought at the original lower prices, but chemists not carrying large stocks had been forced to buy at the new high price—and sell at the old low retail price.

IRISH NEWS

Dublin Post-graduate Course.—A post-graduate course for licentiates of the Pharmaceutical Society of Ireland, to be held at the end of January, is to be conducted by Dr. J. N. Meenan (St. Vincent's Hospital, Dublin). Applications for admission to the course should be sent to the Registrar of the Society, 67 Lower Mount Street, Dublin.

NEW COMPANIES

SHELL CHEMICALS DISTRIBUTING CO. OF EGYPT, LTD. (P.C.).—Capital £10,000. First directors are not named. Solicitors: Waltons & Co., 101 Leadenhall Street, London, E.C.

SHELL CHEMICALS DISTRIBUTING CO. (MIDDLE EAST), LTD. (P.C.).—Capital £10,000. First directors are not named. Solicitors: Waltons & Co., 101 Leadenhall Street, London, E.C.

JEAN CASTEL & Co., LTD. (P.C.).—Capital £2,000. To carry on the business of manufacturing chemists and druggists, etc. Jean Castel and Herbert Ingleby, directors. R.O.: 113 High Holborn, London, W.C.1.

THOMAS LITTLE, LTD. (P.C.).—Capital £3,000. To acquire the business of a chemist and druggist carried on at 114 Coventry Street, Kidderminster as Thomas Little, Dora C. Little, Thomas W. Little and George B. Pryde, M.P.S., directors.

TECHNOPOL LABORATORIES (EIRE), LTD. (P.C.).—Registered in Dublin. Capital £500. To carry on the business of general manufacturing and research laboratories, etc. First directors are not named. Subscriber's address: 116 Merrion Road, Dublin.

CHEMI-FOAM PRODUCTS, LTD. (P.C.).—Capital £1,000. To acquire the business of synthetic soap manufacturer carried on by William H. Hale, George W. Tarr, William H. Hale and Winifred E. McCormick, directors. R.O.: 314 Kensington, Liverpool, 7.

W. NORMAN CROFT, LTD. (P.C.).—Capital £5,000. To acquire the business of a chemist and optician carried on at 125 Stockton Road, West Hartlepool. Marjorie Kjølgaard, John H. Kjølgaard, William H. Richards, M.P.S., and Henry P. Humes, directors.

G. ELLIOTT & SON, LTD. (P.C.).—Capital £1,000. To acquire the business of a retail and wholesale chemist recently carried on by Edward M. Elliott as G. Elliott and Son, at 42 Park Street and Bridge Street, Walsall. Edward M. Elliott, M.P.S., and Walter Poole, directors.

STOREY & DAWSON, LTD. (P.C.).—Capital £750. To acquire the business of a chemist and druggist carried on by Ernest K. Storey at Chorlton-cum-Hardy. John Dawson, M.P.S., Edith Dawson and Ernest K. Storey, M.P.S., directors. R.O.: 245 Barlow Moor Road, Chorlton-cum-Hardy, Manchester.

Company News

W. J. BUSH & Co., LTD.—The interim dividend is maintained at 4 per cent.

BRITISH GLUES & CHEMICALS, LTD.—The interim dividend is maintained at 5 per cent.

JOHN & E. STURGE, LTD.—Mr. E. R. S. Winter, Ph.D., A.R.C.S., has been appointed to the board of directors.

KEMBALL, BISHOP & Co., LTD.—Mr. J. E. Whitehall (see p. 71) resigned from the office of joint managing director on December 31, 1948, but is to continue as chairman of the board.

BRITISH INDUSTRIAL PLASTICS, LTD.—Net profit for the year 1948, after taxation, amounted to £90,240, against £80,231. The ordinary dividend

is maintained at 20 per cent.; to stock £10,000 (nothing); forward £34,882 (£26,400).

A. MILLAR & Co., LTD.—Amount available for distribution for the year ended October 31, 1947, was £21,084, against £24,154 in the previous year after providing for preference dividends and other charges. Dividend on ordinary shares 9 per cent. plus a bonus of 3 per cent. (before tax), compared with 8 per cent. plus 1 per cent. bonus in 1947.

Voluntary Liquidation.—**WHITMORE BAKER, LTD.**, chemists, Elgin Avenue, and Lauderdale Park, Maids Vale, London, W.9. A meeting of creditors was held recently, when a statement of affairs was submitted which disclosed liabilities amounting to £2,979, of which £1,720 was to the trade creditors, £1,250 to cash creditors. After allowing for preferential claims the net assets totalled £1,036 or a deficiency, so far as the creditors concerned, of £1,943. A resolution was passed confirming the voluntary liquidation of the company, with Mr. Parkin S. Booth, Kimberley House, Holborn Viaduct, London, E.C.1 as liquidator.

Bankruptcy.—**COLYN HARLEY SIMM, LTD.**, 20 Lane, Leicester, manufacturer and distributor of chemical products and sundries. A public examination was held recently at Leicester, when it was reported that the liabilities amounted to £2,163, against assets of £2,163. The latter, however, all absorbed by preferential claims. Trading figures for the year to May 31, 1947, showed that for the year to May 31, 1947 the turnover amounted to £10,412 on which there was a profit of only £147. In the following year turnover increased to £38,707 with a profit of £1,000 and commission in 1947 totalled £2,896, a net loss was incurred of £2,063, and for the year to May 31, 1948, a net loss was incurred of £5,699 on a turnover of £45,277. The examination was adjourned.

BUSINESS CHANGES

MR. S. W. HOLDEN, M.P.S., has been appointed as medical representative on Merseyside of Medical Supplies, Ltd., Liverpool.

MR. W. W. PATERSON, M.P.S., has acquired a pharmacy at 18 Main Street, Prestwick, Ayrshire, formerly carried on by Mrs. Margaret Cooper, M.P.S.

GALA OF LONDON, LTD., announce that their new shop and publicity office at 48 Burlington Arcade, London, W.1, now has the following telephone number: Regent 4655.

S. MAW, SON & SONS, LTD., have appointed Mr. J. A. Bunce home sales manager from February 1, 1948. Mr. Vernon Porter (a director) has been appointed marketing manager.

W. T. OWBRIDGE, LTD., Hull, have appointed Mr. Clifford Coope as their marketing controller. Mr. S. Wingate is to continue as sales manager and Mr. G. Hancock as export manager.

OSBORNE, GARRETT & Co., LTD., Friar Street, London, W.1, have appointed Mr. M. W. G. G. as sales manager as from January 31. Mr. G. G. has been sales manager for Tampax, Ltd., Jamaica Street, London, S.W.1.

TOPICAL REFLECTIONS

B.I. Memorandum

The memorandum sent by the Federation of British Industries to the Chancellor of the Exchequer (p. 49) gains authority by the restraint of its wording. This "most important body of industrialists" has a thorough grasp of the effect of taxation in all its diversity; and by observations made by it on so fundamental a subject command the attention of experts as fully as that of the general public. Translated into popular language, the memorandum is a warning to the Treasury authorities that they run a risk of killing the goose that lays the golden eggs. The position of industrial companies with regard to taxation is clear beyond dispute. In more normal times, replacement of obsolete or obsolescent machinery and appliances can proceed by means of an annual allowance calculated fairly exactly; but now, with the heavy incidence of taxation, this replacement is seriously curtailed. Deterioration of such assets is therefore progressive, with results that will appear both in output and in dividends. The heart will be taken out of managements, and "drives" for expansion will be a mockery. The measures proposed by the Federation to obviate this grave danger will, I trust, receive careful study at the address to which they have been sent.

Scientific Control in Manufacture

The lecture of Mr. A. G. Fishburn at Andover (p. 46) summarises, in readable form, recent advances in the presentation of medicaments. The guiding principle of these advances, simply expressed, is scientific control. As the lecturer indicated, crude drugs are in some cases being replaced by standardised materials. This development is a matter of enlightened common sense; for Nature (with a capital N) does not often, if ever, seek the same ends as prescribers or manufacturing chemists do. Given the correct raw material, the next factor is the application of suitable control at each stage of manufacture. Hence the desirability of large-scale working. Mr. Fishburn illustrated his theme by apposite examples. He referred to problems presented by the introduction of penicillin into general practice—problems not all of which are yet completely solved. Dermatology has enlisted the aid of pharmacists

in devising means of improving absorption: "by adjusting the proportions of each product in a mixture it is possible to prepare liquids, pastes, and solids of any required viscosity or melting point." Cellulose gels have been shown to possess advantages over mucilages prepared from gums. Aluminium stearate has supplanted beeswax in penicillin injections in the United States, if not elsewhere. Surface-active agents have been tried not only for local application but also for accelerating the disintegration of tablets.

A Mixed Grill

On reading the "Coming Events" section in your issue of January 8 I realised how much better the scientific, commercial and cultural needs of pharmacists are provided for than they were a few years ago. The point seems worth making. A comparison of the section mentioned with the corresponding details in your issue of January 12, 1924 (twenty-five years since) shows that, omitting social events and meetings of non-pharmaceutical societies such as the Royal Institution, the respective numbers of announcements for the corresponding weeks in 1924 and 1948 are four and twelve. (It must be remembered that some events of the same nature never reach the Press as announcements). The difference is the more striking when the thirty-six *quarto* pages of January 12, 1924, are contrasted with the thirty-two *octavo* pages of January 8, 1949. The contrast does not end there. Among the present week's events named on p. 64 are lectures on the new British Pharmacopœia, on London and pharmacy in the seventeenth century, on modern developments in pharmaceuticals, on diagnostic radiology, and on allergy. Some of these subjects might have been regarded as unduly "highbrow" twenty-five years ago: it would have depended on the kind of audience. Against this array of attractive subjects—and there are more of them—the 1924 list can only show the chemistry of "some" antipyretics, a polarimetric demonstration, an address on the future of voluntary and municipal hospitals, an address on National Health Insurance, and an annual meeting. It is to be hoped that the recently qualified know how fortunate they are in this respect, and that they make an effort to respond, even at possible inconvenience, by attending local meetings.

Xrayser

BIRTH

ROCHE.—Recently, the wife of Francis Joseph Roche, M.P.S.I., 63 Howth Road, Clontarf, Dublin, of a daughter.

MARRIAGES

BERENS-GRENTZELIUS. — In Stockholm, on January 8, Denis L. Berens, eldest son of Mr. Herbert A. Berens, Holm Oaks, Cokes Lane, Chalfont St. Giles, Bucks (a director of Biddle, Sawyer & Co., Ltd.), to Elizabeth, younger daughter of Mr. and Mrs. Borger Grentzelius, Stockholm.

SHAND-GUILD.—In Edinburgh, on January 1, Norman Charles Shand, M.P.S., to Florence Evelyn Guild, S.R.N., S.C.M. Heathfield, Coalburn, Lanarks.

DEATHS

BIRNIE.—Suddenly, at 124 High Street, Innerleven, Methil, Fife, on January 6, Mr. James Murison Birnie, M.P.S., formerly of Holburn Street, Aberdeen. Mr. Birnie qualified in 1900.

DAVIS.—Recently, Mr. Cornelius Edward Davis, F.S.M.C., a director of Davis & Davis, Ltd., chemists, New Malden, Surrey. Mr. Davis who had been missing since December 28, 1948, was found dead on Wimbledon Common on January 8. An inquest took place on January 12. The funeral was from Christ Church, New Malden.

FENWICK. — In Swansea Hospital, on December 4, 1948, Mr. Thomas Hopkin Fenwick, M.P.S., Rock Villa, Ffairfach, Llandilo, Carmarthens, formerly of 12 Shrewsbury Street, Hodnet, Salop, aged seventy-six.

ISON.—On December 30, 1948, Mr. Alfred Valentine Ison, M.P.S., Cromer Road, Westbourne, Bournemouth, aged fifty-eight. Mr. Ison was found dead in the gas-filled dispensary of his pharmacy at West Cliff Road, Bournemouth.

JACK.—In a Glasgow infirmary, on January 3, Mr. George Jack, M.P.S., 53 Kilnside Road, Paisley. Mr. Jack qualified in 1920.

JENNINGS.—On December 11, 1948, Mr. Henry George Jennings, M.P.S., 15 Birchwood Road, Penn, Wolverhampton, aged seventy-seven. — On December 16, 1948, Mrs. Emma K. Jennings, his widow, aged seventy-five.

NEWBY.—On December 15, 1948, Mr. Thomas Newby, M.P.S., 171 Stoney Lane,

Yardley, Birmingham, 25, formerly of 70 Heaton Road, Solihull, Warwicks, aged seventy-six.

ORCHARD.—On December 29, 1948, after a long illness, Mr. Frederick Orchard, M.P.S., Market Street, Highbridge, Somerset, aged seventy-five. Mr. Orchard, who qualified in 1896, was in business at Highbridge, for nearly fifty years.

PARKINSON.—On January 3, Mr. Robert Holroyd Parkinson, M.P.S., 66 Higher Bank Road, Fulwood, Preston, Lancs. Mr. Parkinson qualified in 1891. He was in business at North Road, Preston, for about fifty years prior to his retirement in 1945.

SMILEY.—On January 5, Mr. David Smiley, 57 Osborne Drive, Belfast, aged sixty-eight. Mr. Smiley was Northern Ireland representative of Medical Products, Ltd. (T.C.P. preparations), London. He served his apprenticeship with Thomas McMullan & Co., Ltd., Belfast, and joined Messrs. Medical Products in 1932. He was selected to make a tour of South Africa in the company's interest in 1938, and was a leading member of the United Kingdom Commercial Travellers Association. He is survived by his widow.

SMITH.—At Lanark, suddenly, on December 30, 1948, Mr. Dugald Smith, M.P.S., 77 St. George's Road, Charing Cross, Glasgow, C.3. Mr. Smith qualified in 1931.

STARR.—On December 31, Mr. L. O. Starr, for twenty-five years Midlands representative of S. Maw, Son & Sons, Ltd., New Barnet, Herts, aged fifty-nine.

TODD.—On December 30, 1948, Mr. George Todd, M.P.S., 175 Manchester Road, Hollinwood, Oldham, Lancs, aged seventy-one. Mr. Todd was a member Oldham town council from 1927 to 1935.

WILSON.—In an Aberdeen nursing home, recently, Mr. William D. Wilson, Carnegie Crescent, Aberdeen, aged seventy-five. Mr. Wilson, who qualified as a chemist and druggist in 1895, was for thirty years in business as a chemist at Malacca Straits Settlements.



Mr. F. Orchard

PERSONALITIES

MR. JACK HART, M.P.S., New Road, Sampson's, Guernsey, was returned as Deputy in elections held recently in the Island's States, or parliament. He has served previously for three years in that position.

MR. J. E. WHITEHALL, who has resigned his appointment as a managing director of

Kemball, Bishop & Co., Ltd. (see p. 68) has had a distinguished career with the company, entering its service in 1891 as a junior clerk. On the record of his first ten years' service he was appointed secretary when the original firm was made a public limited company in 1901. In 1912 he was

elected to the Board and the following year became a joint managing-director. Since then Mr. Whitehall has played an important part in the expansion of the business. His guidance is still to be available to the company as chairman of the board, a position to which he was unanimously elected recently by his co-directors.

MR. E. R. S. WINTER, Ph.D., A.R.C.S., who has been appointed a director of John & E. Sturge, Ltd. (see p. 68), has been supervising the company's physical chemistry research since 1945. After graduating at London University, he was appointed a lecturer in physical chemistry at the Imperial College of Science and Technology, London.

MR. GEOFFREY HARRISON, M.P.S., Saltaire, is sailing for South Africa, a country he visited during the 1939-45 war, to take up an appointment in Salisbury, Southern Rhodesia. Mr. Harrison, who was apprenticed in his native town, Blackburn, Lancs, with Mr. J. W. Aspinall, qualified in 1941. Since being demobilised (from the Royal Navy) he has managed pharmacies of Norman Best, Ltd., in Bradford and Saltaire.

MR. E. B. K. HUNT, M.P.S., retired on December 31, 1948, after thirty years' service with Evans Medical Supplies, Ltd., Liverpool. Prior to becoming senior medical representative on Merseyside (the

appointment from which he has retired), Mr. Hunt was for a time export manager at the company's London office, later represented the company in India. He returned to become export sales manager.

MR. W. A. SEXTON, B.Sc., Ph.D., F.R.I.C., associate research manager, Imperial Chemical Industries, Ltd., who lectured to the fine chemicals section of the Society of Chemical Industry in London recently on substances that modify plant growth (see p. 76) joined the company twenty years ago after completing studies at Liverpool University. In charge of the company's chemical research on medicinals, he was a member of the teams who elaborated Methoxone, a selective weed-killer, and, more recently, Antrycide, a trypanicidal compound discussed at a Press conference in London on December 29 (see *C. & D.*, January 8, p. 51).

MISS M. A. CODRINGTON has "reluctantly decided," on her eightieth birthday to retire from the head-office staff of G. B. Kent & Sons, Ltd., and to accept a pension that has awaited her for the past twenty years. Miss Codrington has had sixty-three years' continuous service with the company, for the greater part of which time she has been in charge of the invoice department. Throughout the war years she refused, although the company repeatedly offered her a house in a safe area, to evacuate from her home in central London, despite the ruin wrought to much of her immediate locality. Invariably, whatever the night's destruction, she arrived on time the following morning, while daylight raids and warnings were not allowed to upset her self-imposed working schedule. At the date of her retirement her capabilities were not impaired, and only the daily journeys in winter weather have persuaded her of the passing years. A colleague writes: — Miss Codrington has been an institution at Kent's for longer than anyone, now there, can remember, and many executives now in advancing middle ages recall the firm but helpful grounding they received from this indomitable woman, who held a responsible position even in the days of their youth. Her services, valuable throughout, were far exceeded by the traditions of conscientious work implanted by precept and example in the generations she has trained.



TRADE NOTES

Carob Juice.—A. Elder, Reed & Co., Ltd., 103 Battersea High Street, London, S.W.11, invite inquiries for Cyprus golden carob juice, 44-45 Baumé, packed in drums.

Rubber-cushion Hairbrush.—Oakfield & Co., Whielden House, Whielden Street, Amersham, Bucks, have introduced a new

15, 1948, Veramon powder and tablets have been exempt from purchase tax. WARD, BLENKINSOP & Co., LTD., 6 Henrietta Place, London, W.1, advise chemists that Certonin brand dehydrocholic acid tablets and sodium dehydrocholate 20 per cent. solution are exempt from tax.

Brushless Shaving Cream.—Increased production of a number of the preparations of Kayeff Industrial Products, Ltd. (a subsidiary of John Firminger & Co., Ltd., Harwell, Berks) including the company's K-Flash brushless shaving-cream, have been made possible by the acquisition of the enlarged premises in Oxford. The cream is now being marketed in opal glass jars with maroon caps and bearing a newly designed label.

Show Material.—A new shaped and illustrated carton-holding showcard has been issued by Gordon-Moore, Ltd., 31 Sinclair Road, L.

rubber-cushion hairbrush, the Wyrex 200, attractively packed, as illustrated, in window-cartons. The company also manufactures pure bristle nail-brushes.

New Small Size.—G. T. Fulford Co., Ltd. (of Canada), 8 Royston Park Road, Hatch End, Middlesex, have introduced a new small-sized pack of Bablets ("baby's own laxative and carminative"). Details are given on another page.

Free Display-piece.—A special display carton for Boon skin emulsion, illustrated on another page, is available from A. M. Ashford, Ltd., 3 Hunter Road, Sheffield, 6, distributors for the products of Boon Doral, Ltd., Manchester, 2, in return for one month's display.

Increased Discounts.—Details of extra discounts given on mixed parcels of the products of Bengers, Ltd., Genatosan, Ltd., and Whiffen & Son, Ltd., are given in an announcement on another page by British Chemicals & Biologicals, Ltd., Loughborough, Leics.

X-ray Medium.—Glaxo Laboratories, Ltd., Greenford, Middlesex, have introduced Visco-Pyelosil, a viscous solution containing 35 per cent. diiodone for use in hystero-salpinography. The preparation is available in 10-c.c. vials supplied separately or in boxes of five.

Tax-free Specialities.—BRITISH SCHERING, LTD., 167 Great Portland Street, London, W.1, announce that since December



don, W.8, for Gordon-Moore's gum-tinted dentifrice, together with slogan disc cards to fit on cartons, a two-colour, rectangular showcard, size 12½ x 9 in., and a two-page booklet for distribution to customers.

Guarantee Against Tax Loss.—For the second successive year a guarantee against possible loss from purchase-tax fluctuations is being given to their retail customers by Trinity Laboratories, Ltd., Brook House, Blackburn, Lancs. The effect of the guarantee is an undertaking to credit the

ence in tax on any stock purchased from the company on or after January 1, 1949 and still in the retailer's possession on Budget day (in April).

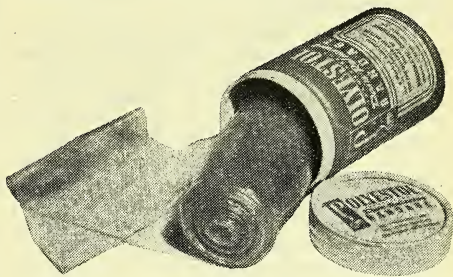
pH Measurement.—A forty-four page illustrated booklet entitled "Hydrogen Ions and pH Measurement with particular reference to the Glass Electrode" has been published by Marconi Instruments, Ltd., St. Albans, Herts. The book deals with the evolution of the pH concept, buffer solutions, methods of determining pH by indicator and electrometric methods, properties of the glass electrode, and pH measuring instruments manufactured by the company.

A New Talcum.—Mornay, Ltd., 22 Radsworth Road, Perivale, Greenford, Middlesex, have introduced a presentation of talcum powder in their Chaminade perfume. The pack is a smart black and white container to match the rest of this firm's (perfume, complexion powder, bath foaming powder, bath-salt tablets and bath crystals). Also available are talcum powders in French fern, pink lilac and geranium, and bath and toilet luxuries in all fragrances, which were until recently in short supply.

Penicillin Solution Tablets.—The British Drug Houses, Ltd., Graham Street, Ley Road, London, N.1 have made available in tubes of ten tablets and in boxes of sixty 10-tablet tubes, solution tablets of penicillin, B.D.H. (solvellae penicillini, W.J.F.), each tablet containing 10,000 international units of penicillin calcium salt. For dispensing small quantities of penicillin preparations for external use (g., creams, eye-drops, ear-drops) the tablets are specially suitable, though they must not be used for preparing solutions for injection.

School of Optics.—A school to be opened shortly by the Institute of Optical Science (formerly the Institute of Chemists-Opticians) at 3 Wilton Crescent, London, S.W.1, is intended to provide instruction in ophthalmic and dispensing optics. The courses vary from one to three years. Classes will be held every evening from 7-10, and the school will have on its teaching staff, it is understood, ophthalmic surgeons as well as optical experts. The school is to be handily and fully equipped, and the Institute of Optical Science, which controls the school, will provide tuition for all optical examinations in addition to those which the institute conducts.

Methyl Salicylate Bandages.—The Polyesterol bandage, as illustrated, is a transparent bandage composed of Polyesterol (an elastomer produced by reacting methyl salicylate with a mixture of polymerised thermoplastic synthetic resins, modified waxes and esters by a patented process). The action is reversible, and results in gradual release of methyl salicylate at the site



of use. The compound is not subject to ageing under the influence of light, atmospheric, water, oxygen, peroxide compounds etc., and is highly resistant to acids and alkalis. In use the bandage is "non-slip," and may be applied loosely or with considerable "pull." Methyl salicylate is released at the rate of approximately 3.5 mgm. per sq. in. per hour at normal body temperature, and the makers, Polyesterol, Ltd., 4 Warwick Court, High Holborn, London, W.C.1, suggest that it should be used continuously for periods not exceeding ten hours at any single application.

Proprietary Articles Trade Association

Additions to Protected List (Part 1).—*Alfred Fennings* (Agents, *John Sanger & Sons, Lancing, Sussex*).—Eire: All sizes Little Healers and small size Fennings children's powders withdrawn. Following standard export packs will apply to Eire: Children's cooling powders, 10's, 9s. doz., 1s.; Little Healers, 40's, 13s. 6d. doz., 1s. 6d.

Addition to List (Part 2).—*Macleans, Ltd.* Macleans peroxide tooth-paste, extra large, 14s. 2d. doz., tax 33½ per cent., inclusive retail price 2s.

Alterations to List (Part 2).—*Scrubbs & Co., Ltd.* (Agents, *Clinical & Natural Products, Ltd.*), Scrubbs's ammonia and other products. Owing to the increased number of products now available, trade discounts to retailers have been altered from a quantity to a sterling-value basis, as follows: Minimum order, £2, 5 per cent. on orders of not less than £4; 7½ per cent. on orders of not less than £6; 10 per cent. on orders of not less than £12. Terms apply to individual products or mixed parcels.

LEGAL REPORTS

In Possession of Indian Hemp.—At Southampton, on December 21, 1948, John Hayden Doughty, seaman, was sent to prison for a total of six months after being found guilty on two charges of importing into the United Kingdom 2½ lb. Indian hemp with intent to evade prohibition and of being in possession of Dangerous Drugs.

Dangerous Drug Charges.—At Liverpool magistrates' court, on January 3, fines totalling £150, or six months' imprisonment, were imposed on Dr. George Mackie Gibb (his name appears as a registered medical practitioner in the Medical Register for 1936), stated to have no fixed address, who pleaded guilty to two charges of unlawfully procuring cocaine from Boots, Ltd., Ranelagh Place, Liverpool. He was allowed six months to pay. Prosecuting solicitor said that at all material times Dr. Gibb was not practising as a doctor, and he obtained the cocaine for his own use.—At Liverpool City Quarter Sessions, on January 4, Reginald Potterill-Tilney, a former Liverpool police-constable, pleaded guilty to four charges of unlawfully procuring a Dangerous Drug. He asked for thirty-nine similar offences to be considered. He was bound over for two years on condition that he entered an institution by January 7 and remained there until discharged, and that he paid £52 10s. towards the cost of the prosecution.

Pharmacy Act Fines.—At Kidderminster magistrates' court, on January 7, Kidderminster Co-operative Chemists, Ltd., were summoned for unlawfully using the title "chemist," for selling morphine otherwise than under the supervision of a registered chemist, and for selling it in a container not labelled in the prescribed manner. On each of the three charges a fine of £4 was imposed, with £3 3s. advocate's fee. For the defence it was submitted that, following the departure of their qualified chemist from the company's Bewdley Street, Kidderminster, shop, every effort was made to obtain the services of a successor, and the Pharmaceutical Society was informed that, meanwhile, the superintendent chemist visited the branch twice daily to dispense. No reply was received to that letter until the test purchase had been made. Prosecuting solicitor said no complaint had been received from Kidderminster; the inspector called to ascertain whether the provisions of the law were being carried out.

DRESSING PRICES REDUCED

THE following reduced prices for gauze and muslin bandages, to take effect on all deliveries made on and from January 17 have been announced by the Surgical Dressing Manufacturers' Association:—

Type of dressing	Manfr. to wholeslr. Doz. pkts.	Wholeslr. to retailer Doz. pkts.
Absorbent gauze, B.P.C., 36 in.		
Plain sterilised		
6-yd. packets ...	19s. 9½d.	23s. 11d.
3 " " ...	10s. 4½d.	12s. 6d.
1 " " ...	4s. 2d.	5s. 1d.
½ " " ...	2s. 6½d.	3s. 1d.
¼ " " ...	1s. 8½d.	2s. 1d.
Boric acid gauze, B.P.C.		
½-yd. packets ...	2s. 5½d.	3s. 0d.
¼ " " ...	1s. 7½d.	2s. 1d.
Mercury and zinc cyanide, B.P.C.		
½-yd. packets ...	2s. 7½d.	3s. 2d.
¼ " " ...	1s. 8½d.	2s. 1d.
Iodoform gauze, 5%		
½-yd. packets ...	2s. 11½d.	3s. 7d.
¼ " " ...	1s. 11d.	2s. 5d.
Picric gauze, B.P.C.		
½-yd. packets ...	2s. 10½d.	3s. 6d.
¼ " " ...	1s. 10d.	2s. 4d.
Absorbent gauze, hospital quality, 36 in.		
6-yd. wrapped packets ...	100 yds. 16s. 3d.	19s. 8d. per 100 yds. or 14s. 2d. doz. pkts.
6-yd. unwrapped rolls ...	16s. 0d.	19s. 4d. per 100 yds. or 13s. 11d. doz. rolls.
3-yd. unwrapped rolls ...	16s. 6d.	19s. 11d. per 100 yds.
Absorbent gauze, B.P.C., sterilised	Per gross.	Per gross.
Small, 36 × 6 in.	15s. 5d.	19s. 0d.
Med., 36 × 12 in.	22s. 8d.	27s. 10d.
Large, 36 × 36 in.	50s. 0d.	60s. 10d.
Mercury and zinc cyanide gauze, B.P.C.		
1-yd. packet (doubly wrapped)	55s. 0d.	67s. 2d.
Muslin bandages, B.P.C., packets of 1 doz. (a), not individually wrapped.		
1 in. × 6 yds. ...	15s. 9d.	19s. 0d.
1½ in. " ...	23s. 2d.	27s. 11d.
2 in. " ...	30s. 7d.	36s. 10d.
2½ in. " ...	38s. 0d.	45s. 9d.
3 in. " ...	45s. 5d.	54s. 8d.
4 in. " ...	60s. 3d.	72s. 6d.
5 in. " ...	75s. 2d.	90s. 6d.
6 in. " ...	90s. 0d.	108s. 4d.
(b), in printed wrappers		
2 in. × 6 yds. ...	40s. 9d.	49s. 2d.
3 in. " ...	48s. 2d.	58s. 1d.
4 in. " ...	63s. 0d.	75s. 11d.

MOVE TO TERMINATE J.I.C. AGREEMENT

Statements by Trade Union and Employers' Sides

THE trade union side of the National Joint Industrial Council for Retail Pharmacy, at a meeting of the Council on January 5, gave notice to terminate the present N.J.I.C. agreement on the grounds that in its existing form it was valueless and could only act as a serious embarrassment to the interests of the retail pharmacy employee," particularly in the new circumstances of the National Health Service. The trade union side has also withdrawn its application for further discussions on amendments to the interim scale that was agreed in March 1948 (see *J. & D. Diary and Year Book*, 1949, p. 116). A statement issued by Mr. J. D. Hiscock (secretary of the trade union side) on January 6 says that, since the N.J.I.C. was established in 1944, the trade union side has urged that salary scales should reflect fairly and equitably the standards which pharmacists are entitled to enjoy," while the employers' side has insisted that the Council should lay down "a minimum related to the least efficient pharmacist." The trade union side's principle of equality of pay between qualified men and qualified women has also been consistently opposed by the employers' side. An approach by the trade union side for review of the March 1948 agreement after six months resulted, says Mr. Hiscock, in complete deadlock, the employers' side replying that a review should be delayed for another twelve months so that further experience of the working of the National Health Service could be obtained.

Mr. Mallinson's Letter

The following letter has been received for publication:—

SIR,—Regarding the announcement by the trade unions giving notice of termination of the existing J.I.C. agreement, there are one or two points to which I should like to draw attention.

1. The existing agreement is the basis of the fair wages clause in the chemists' contracts under the National Health Service, and remains as such. Chemists should therefore continue to regard those wages as the very minimum they can pay.
2. The minimum scales are approximately double the pre-war rates, which we agree were low, but the same criticism applied in other callings. The scales were not related to efficiency in any way.
3. The present wages actually being paid are at scarcity rates, and cannot be regarded as per-

manently established. They will continue at their present level so long as the existing conditions prevail.

4. Regarding the high standards of payment which, the Union claims, pharmacists are entitled to enjoy on account of the high level of their training and qualification, the standards of all University graduates is equally high but, unlike pharmacists, they do not, when they leave the University, find jobs waiting for them on that account at even the J.I.C. rates, not to mention the actual wages a pharmacist can get. Pharmacists are not prevented by the J.I.C. rates from getting better wages.
5. The existing rates of the J.I.C. are obviously not an embarrassment to the retail pharmacy employee at the present time, but we can imagine they are an embarrassment to the Unions because they are lower than the actual wages which can be obtained without any help from the Unions, and, therefore, so far as wages are concerned, they do not give any evidence of the value of the Union membership.
6. Although the rates of wages do not help the Unions, their members should be grateful to them for improved conditions of employment generally which have been stabilised by the J.I.C. agreement. Fortunately, none of these advantages can be lost (because of the fair-wages and conditions of labour clauses in the N.H.S. contract).
7. The rates laid down for hospital pharmacists and actually being paid depend mainly on the value of the pharmacist outside the hospital. There is competition for his services in both directions, but we cannot agree to the suggestion that they should be played off on one another by means of these agreements.
8. Lastly, we are still satisfied that whilst, as a principle, equal pay for men and women sounds right, it does not in retail pharmacy prove to be a practical proposition. Even a Labour Government has hedged on this thorny problem.

May I say in conclusion that, in our opinion, nothing which the Unions have done has materially affected the wages being paid in pharmacy at the present time, nor will anything they can do affect them until there are more men wanting jobs than there are jobs waiting for them. We are confident that such a state of affairs cannot be expected in pharmacy for several years. That is why we regret that the Unions do not take a more realistic view of their present position and make their members realise that wages will take care of themselves though general conditions of employment will not. That is the Unions' present value to their members.

Yours faithfully,

G. A. MALLINSON, *Chairman.*
Employers' Side Joint Industrial Council.

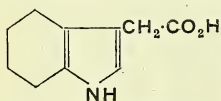
CHEMISTRY OF PLANT GROWTH REGULATORS

Summary of a lecture by Mr. W. A. Sexton, B.Sc., Ph.D., F.R.I.C.

At the third meeting of the Fine Chemicals Group of the Society of Chemical Industry, held jointly with the Agricultural Group in London on December 9, Dr. W. A. Sexton (associate research manager, Imperial Chemical Industries, Ltd., Dye-stuffs Division) gave a lecture on the chemistry of plant-growth regulators.

In addition to substances such as the vitamins, coenzymes and glutathione, which function in the biochemistry of most living organisms, there are certain other natural plant constituents performing a specific function. Those so far identified include the growth hormones auxins *a* and *b*, and heteroauxin, and the wound-healing hormone (traumatin or traumatic acid) while the existence of a flowering hormone and a hormone for embryonic development is suspected. By degradative studies Kögl and colleagues adduced evidence that auxin *a* and auxin *b* have a cyclopentane nucleus with two isobutyl side chains and a third side chain which in auxin *a* is $\text{CHOH} \cdot \text{CH}_2\text{CHOH} \cdot \text{CHOH} \cdot \text{COOH}$, and in auxin *b* is $\text{CHOH} \cdot \text{CH}_2 \cdot \text{CO} \cdot \text{CH}_2\text{COOH}$. Neither hormone has yet been synthesised. Heteroauxin, which has been shown to be indole-3-acetic acid, appears to be produced from tryptophane either by deamination, followed by loss of carbon dioxide and oxidation, or by decarboxylation to tryptamine followed by oxidation of that compound.

The effect of structural alteration in indolyl acetic acid and its analogues on their ability to stimulate cell elongation has been studied. Partial hydrogenation of the nucleus, hydroxyl in the side chain, shortening of the side chain or variation in



Indolylacetic acid

its position of attachment all result in loss of activity. On the other hand lengthening of the side chain in α - or β -indolyl propionic or indolyl *n*-butyric acids, esterification, N-methylation, or introduction of a side chain ketonic group leads to retention of activity. Among carboxylic analogues of indolylacetic acid, benzoic acid, hexahydrophenylacetic acid, *trans*-cinnamic acid, *p*-nitro-phenoxyacetic acid and 2:4:6-tribromo-phenoxyacetic acid are inactive. Phenylacetic acid, *cis*-cinnamic

acid, 2:4-dimethyl-phenoxyacetic acid and phenoxyacetic acid in low concentration displayed moderate activity while α -naphthylacetic, β -naphthoxyacetic, 2:4:5-trichlorophenylacetic-, 2-methyl-4-chloro- and 2:4-dichloro-phenoxyacetic acids are all very active. Activity is determined by observing and measuring the degree of curvature produced by cell elongation on the treated side when the "auxin" in agar is applied asymmetrically to the cut surface of a coleoptile stump. Alternatively, the extent of outward curvature produced on immersing a divided petiole shoot in a solution of the material under test is measured.

It has been postulated that the action of indolylacetic acid and related compound depends upon their ability to participate in an enzyme system, but it is more likely that the action is concerned with permeability to, or transport of, ions, since growth is linked with ion absorption. Veldstra's hypothesis that activity depends on the presence of an acidic group at an angle to the plane of the nucleus appears applicable in many cases and led to the prediction of activity in certain α -naphthalen derivatives. It seems inapplicable, however, to 2-benzoylbenzoic acid or 3-nitro-2-bromobenzoic acid.

Selective Herbicides

The phenoxyacetic acids have been studied particularly in respect to their selective herbicidal effects and some are now much used in agriculture, having had a marked effect in increasing grain yield. While unsubstituted, 4-nitro-, 2:4-dinitro- α -naphthoxy- and 1-chloro-2-naphthoxyphenoxyacetic acids have only slight activity against germinating charlock seeds, 2-, 3- or 4-methyl-; 2:4- or 2:5-dimethyl-; 4-chloro-; 2-methyl-4-chloro-2:4-dichloro-; and β -naphthoxyphenoxyacetic acids and their methyl, ethyl or propyl esters all had greater activity than α -naphthylacetic acid against germinating charlock. The exhibition of a relatively selective herbicidal action against dicotyledons such as the charlocks rather than against monocotyledons such as the grasses may be due to differences in absorption and translocation but more probably to biochemical peculiarities in the species. Other plant constituents which, when isolated, are shown to have phytotoxicity and

which may play a part in the economy of the parent plant include ethylene, the so-called "blastakolines" which effect inhibition of germination of such seeds as cress, namely, hexenolactone, coumarin, caffeic and ferulic acids and the mitotic poisons such as colchicine. The urethanes such as phenyl urethane and its isopropyl ester inhibit the growth of germinating grasses and cereals. The effect of structural variations on this ability has been studied. Activity is largely retained in the methyl ester, and in the ethyl esters, 2-chloro- and methoxy-phenyl carbamic acids and in esters of phenyl thiocarbamic acid, but it is largely or entirely lost in the butyl ester, methyl α -naphthylcarbamate, in esters of *N*-methyl-phenylcarbamic acid, *p*-methoxyphenylcarbamic acid and carbamic acid. Other substances capable of inhibiting the growth of cereals include the phosnamides, β -picoline carboxylic acid, hydroxystearic acid and tryptophane. Among substances causing plant organ modifications (epinastic and often quite bizarre effects), in addition to the phenoxyacetic acids mentioned as active in the auxin test, are 2-chloro-4-nitrobenzoic acid and chloro- and bromobenzoic acids.

The breaking of dormancy, such as sprouting in potatoes, is prevented by α -naphthylacetic acids, and the phenoxyacetic acids and their esters. Dormant potatoes are caused to sprout, on the other hand, by ethylene chlorhydrin and certain alogenated ethanes and ethylenes as well as by certain compounds having a thiol or potential thiol function as, for example, potassium thiocyanate, thiourea, substituted thioureas, glutathione and carbon disulphide.

Colchicine, used in induction of polyploidy, the urethanes, acetaphene and certain aromatic derivatives form a class of mitotic poisons. Much remains to be learnt of the mode of action of plant growth regulators but it seems certain that their study offers a field of enquiry of a breadth and complexity comparable for example with that of the bactericides.

Discussion

SIR JACK DRUMMOND, introducing the discussion from the chair, said that the study of the mode of action of plant growth regulators offered a challenge to botanists and plant physiologists.

MR. POLLARD suggested that correlations between seemingly diverse chemical structures might lie in their ability to be transformed to related substances in the plant,

and DR. F. HARTLEY, that in addition to spatial relationships of acid groups, acid strengths (pK values) might be profitably considered. MR. F. A. ROBINSON wondered if progress in correlation between structure and action awaited improvement in methods of testing. Among herbicides, clearly the selectivity of action between dictyotyledons and monocotyledons was relative.

DR. WILKINSON thought the nitrogen mustards would act as mitotic poisons and thought the effect of substances inhibiting cell division might be due to a general toxic effect. DR. W. MITCHELL wondered if eventually strains resistant to plant growth regulators might be produced, and inquired as to the persistence of substances in the soil. DR. SEXTON said that phenoxyacetic acids had disappeared from the soil in the course of a few weeks. DR. HOOPER wondered if, in due course, herbicides might be found to have other toxic effects such as influence on cross pollination. DR. CARR said it was puzzling that though colchicine was a mitotic poison it was found in considerable amounts in *Colchicum autumnale*. DR. F. BERGEL suggested that just as Ferguson had been able to find in the thermodynamic activity coefficients a relationship between diverse structures in the anaesthetics, such a concept might bring to light a relationship between otherwise diverse substances among plant growth regulators.

DEPILATION OF ANIMALS

A PROCESS enabling the abdomen and chest of a large rabbit to be depilated in about five minutes is described by Pitesky and Last ("Science," 1948.108.657). Two parts by weight of purified barium sulphide powder is triturated with one part of a commercial detergent powder of the sulphated fatty alcohol type, 25-35 gm. of the product is mixed with 50 mls of a 10 per cent. solution of glycerin in water to obtain a smooth creamy suspension. The depilatory is applied with a wooden tongue depressor and gently worked into the hair which has previously been thoroughly wetted. The hair is seen to gelatinise. The depilatory-hair mixture is carefully moved backward and forward over the skin, additional water being sprinkled on if necessary to prevent drying. When the hair is completely removed, the area is thoroughly rinsed with water to remove any residual sulphide. The authors state that the depilatory has also been used on mice, dogs, cats and monkeys, with no indication of secondary infections.

TRANSPORT CLAIMS

By Graham Saville

DURING the war years, and in the period immediately following the war, there was a large increase in the incidence of damage or pilferage during transport of goods by rail or by other means of transport. Many traders fail to obtain proper compensation for such loss or damage from ignorance how to make the claim.

First, it is essential that the signature given on the delivery sheet or warehouse book should be properly qualified by a suitable remark when there is evidence of loss or damage. Moreover, only the actual quantity of goods received should be signed for. Even with goods in which there is no apparent damage or pilferage, it is advisable to qualify the signature with some such remark as "not examined."

If the goods have come by railway goods service, the complaint and claim must be made in writing (and, of course, the endorsement of documents previously referred to does not constitute making a complaint or claim in writing). It must also be received by the railway authority within certain specified periods. Complaints of damage or pilferage have to be made within six days, and claims made within ten days of the termination of transit. Where a whole consignment, or a complete package or packages forming part of a consignment, is lost, the complaint must be made within twenty-eight days and the claim within forty-two days of dispatch of the merchandise. Complaints and claims must be sent to the forwarding or receiving station or to the district or head office of the Railway Executive. The conditions of carriage by rail make provision for claims to be considered when it has not been possible for the complaint and claim to be lodged within the proper period, but it should be understood that special circumstances must have made it impossible for the normal requirement to be complied with.

Claims Against Hauliers

With traffic delivered by road-transport contractors the position is similar, though conditions of carriage vary between different hauliers. Many haulage contractors now handle traffic under a set of conditions of carriage drawn up by the Road Haulage Association. The conditions prescribe time limits (similar to those of the Railway Executive) for complaints and claims. With

non-delivery of the whole of a consignment or a package or packages forming part of a consignment, the complaint must be made within fourteen days and the detailed claim within twenty-eight days after receipt of the consignment by the transport contractor to whom it was handed by the consignor. For other damage or loss the claim must be made within three days and the detailed claim within seven days of termination of transit of the consignment. As with rail claims, application must be made in writing. An important point to note is that frequently the conditions of carriage by road stipulate a definite limit of liability. For example, under the Road Haulage Association conditions already referred to the limit with consignments exceeding 1 cwt. in weight is £10 per gross cwt., and *pro rata* with every part of a hundredweight. With consignments not exceeding 1 cwt., the limit of liability is £10. The consignor can, however, arrange for the limit to be increased by paying additional charges.

Essential Details

Generally speaking there are no special forms on which claims have to be made in respect of traffic carried by road or rail, but it is essential that all necessary information should be given to the carrier, including the names and addresses of the consignor and consignee, the number of packages, type of merchandise, station or point at which handed in, name of carrier (where known) if collected, and the nature of the complaint. With traffic forwarded by railway goods service, the main set of conditions of carriage can apply. It is unnecessary to know the full context of the conditions, but an understanding of the extent of liability is desirable if proper compensation is to be ensured. The conditions apply to ordinary goods and not to goods of a dangerous or inflammable character. The bulk of traffic is forwarded under "company's risk" conditions. Under these, the Railway Executive is liable except in such special circumstances as act of God or an act of war. The second set of conditions are "owner's risk," under which the Railway Executive can be held liable only if it can be shown that loss or damage was caused by wilful misconduct of the Executive. There are exceptions where the Railway Executive is unable

ow that the non-delivery, pilferage or delivery was not due to their negligence misconduct. The exceptions make the Railway Executive liable for non-delivery unless it was caused by accidents to trains by fire, and provided the goods were properly packed and addressed. The exception affecting pilferage makes the Railway Executive liable in respect of consignments other than of goods protected only by paper or other packing readily removable by hand, and also provided the pilferage was pointed out to a servant of the Railway Executive on or before delivery. The other conditions of carriage apply to damageable goods (consignments which the Railway Executive will not accept under their ordinary company's risk conditions owing to insufficiency of packing). Under these conditions the Railway Executive is liable only when it can be proved that a loss or damage was caused by their wilful misconduct, or alternatively would have occurred if the goods had been properly packed and the Railway Executive would have been liable had the goods been carried under their ordinary company's risk conditions. By railway passenger train service, under owner's risk conditions, the Railway Executive is never liable for more

than 75 per cent. of the net invoice value of the goods.

For goods sent by post there is a limit to the liability accepted by the postal authorities. With registered packages it depends on the fee paid. For threepence the limit is £10; fourpence £20; fivepence £40; and so on. Moreover, the postal authorities do not pay compensation for any damage in respect of fragile articles sent by registered letter post unless the cover was clearly marked with the words "fragile with care." With unregistered parcels the maximum amount of compensation payable is £3, and certain articles are excepted.

There are, of course, other minor regulations governing claims in respect of damage or loss to consignments sent by post. One of the most important of these is that all packing should be kept for inspection.

Finally, some traders may be interested in the claims position affecting articles carried by air. Unfortunately, conditions of carriage applying to such traffic vary considerably. The conditions of carriage vary according to whether the traffic comes within the rules relating to international air traffic. With traffic not so styled, the air transport concerns accept a considerable degree of liability.

BANANA "CURE" FOR SNAKE BITE

IN Africa, where, perhaps, 75 per cent. of snakes are non-poisonous and useful to humanity (many of them feed on germin and cockroaches), it might be thought that the population would have learnt to make pets of the beneficial ones and wage war upon the others. This is not so. Few natives of Africa can tell one kind from another among the smaller and less common snakes. The puff-adder, mamba, spitting cobra and python are known and especially feared. The others, including the commonest of harmless grass snakes, are thought to be poisonous and killed whenever it can be done with complete safety to the individual. It is equally curious that primitive people should not have developed cures, or at least palliative treatments. The writer first heard of the value of banana juice about twenty years ago, in Uganda. It is not claimed that it (which probably contains a high percentage of potassium salts) cures bites from the most venomous snakes, but from the author's experience it may be helpful. For example, it was tried on a native who had certainly been bitten by a poisonous snake. He had been struck in the finger, and in

ten minutes considerable swelling had taken place, his eyes were affected, his forehead was beaded with sweat, and he complained of great pain. As the incident occurred a long way from medical treatment, some attempt at first-aid treatment was imperative. The bite was lanced and crystals of permanganate of potash rubbed in. A ligature was placed above the swelling and released after short periods. A thick banana stem was cut and split into sections and the sap wrung out from the spongy tissues. The man was given about one-and-a-half glassfuls of the liquid. He did not like its astringent flavour, but in three days the swelling had subsided and the man was back at work. A little later a herdsman brought in a goat with a hind leg stiff and badly swollen. He said the animal had been bitten by a puff-adder. The goat was tied to a post and armfuls of young banana leaves were cut and tied to the post within easy reach of the animal. The leaves were eaten with evident enjoyment and in prodigious quantity. In two days the swelling in the leg had disappeared and the goat was again in normal health.—A. E. H.

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Statistics of Distribution

THE forms to be completed by wholesalers (*C. & D.*, January 8, p. 43) and by retailers (p. 88) in connection with the forthcoming "Census of Distribution and other Services," authorised under the Statistics of Trade Act, 1947, have a good deal in common. First appearances may be deceptive for, we believe, the questions themselves, and particularly the instructions given to traders as to the information required, will take longer to digest than the actual rendering of the return. Many forms will leave the completion of the form largely in the hands of their accountants. Some of the more objectionable features of the pilot census form have been omitted, such as, for instance, the size and annual values of properties, expenditure on insurance, advertising, postage and details of book debts. In general the questions which wholesalers and retailers will be called upon to answer are directly concerned with distribution, and, in our opinion, under the guarantee that the information supplied will be treated as strictly confidential, no objection can reasonably be raised to making the return as fully as possible.

Delivery in a Few Weeks

As the period of the census, with certain exceptions, is the calendar year 1949, it is unfortunate that the forms are not already in the hands of distributors; it is understood they are now being printed, but it may be some few weeks before they are delivered. In the meantime the articles

published in last week's and this week's issues of the *C. & D.* will give wholesalers and retailers a good indication of the scope of the census.

As indicated, the information called for from retailers and wholesalers is very similar, although, naturally, the latter are asked for much more information on methods of delivery (own vehicles or contract) and the cost of that service. Other matters on which wholesalers are asked to supply information refer to re-sales, sales of goods on commission, warehousing, storage, importing and exporting, and other kinds of business and services which they normally carry on or provide.

Much of the financial information required from retailers will be available from their annual accounts—as, for instance, the values of stocks at the beginning and end of the census year, and the values of their purchases and sales during that year, together with the aggregate of the year's wages and salaries account. The total amount derived from "charges for services" is also called for. The dispensing of medicines is not specifically mentioned in the examples of "services" given on the form (Section 5), but we assume it will be considered to be such. Under Section 12c the bald questions (to which "yes or no" answers are required) are asked: "Do you dispense medicines?" and "Do you sell spectacles made to prescription?" The value of these services is not required, at least, not in this section. We assume the questions are designed to enable the census authorities to distinguish between pharmacies and drug stores.

Retailers whose turnover during the census year exceeds £5,000 will be required to answer further questions under sections 13, 14 and 15, dealing with "Sales of Goods by Groups." In section 13, thirty-three groups of goods are listed, and the trader will have to show what proportion of his total sales is represented by each of the groups in which he trades. Only three groups have a direct connection with pharmacy and the drug trade. Not many retailers keep such detailed accounts of their sales, and this is recognised by the census authorities, who will be satisfied with "reasonable estimates." This helpful attitude

is adopted throughout the census form, "estimates based on knowledge" being regarded as satisfactory where accurate figures would call for elaborate book-keeping.

Retailers with less than ten branch shops are required to complete one census form for each branch, the forms to be returned together in one envelope. For firms having ten or more retail shops, a special "multiple" form has been designed to cover head office, warehouse and branches.

Pharmacy's New Monthly

WE welcome in the now monthly "Journal of Pharmacy and Pharmacology" (the first number of volume one of which we have just received) the direct successor of the long-established "Quarterly Journal of Pharmacy and Pharmacology." Like its predecessor, the monthly is published by direction of the Council of the Pharmaceutical Society, under the editorship of Dr. C. H. Hampshire, and with the help of a

large editorial committee and abstracting staff. Though the sixty-four pages of literary contents have altered little in make-up and content, the cover has been typographically modernised.

The principal innovation is a lengthy review, written by a specialist. As the article ("The Anti-histamine Drugs") is presumably the first in a regular series of such reviews—and they are always valuable—it is perhaps a little unfortunate that the subject chosen has been dealt with at some length many times recently, and that references to original sources are not quoted. Nevertheless, the publication is a praiseworthy contribution to the progress of scientific pharmacy in this country and should do much to encourage further research work in the pharmaceutical field. It compares favourably with similar overseas publications. The editor is to be congratulated in overcoming the peculiar difficulties of bringing out a paper at the present time, and we wish him success.

SECRETARYSHIP OF PHARMACEUTICAL SOCIETY

Statement by the Council

AT Mr. Linstead's request the Council of the Society has recently been considering whether ways and means could be found to relieve him of some of the burden of work which falls on him by reason of his public duties and his duties as secretary of the Society. In complete agreement with Mr. Linstead, and after the fullest consideration, they have decided that the following arrangement will, in the best interests of the Society, enable him to continue his valuable public work, and at the same time relieve him from much of his responsibility for the direct administration of the Society's affairs. The arrangement is the appointment of an additional secretary in the person of Mr. F. W. Adams, at present deputy secretary, who will also be Registrar, which office Mr. Linstead resigns. The Society will thus in future have two secretaries—Mr. Linstead and Mr. Adams—of whom the latter will have the particular responsibility for the conduct of the work of the Society's headquarters and the administration of its affairs, in accordance with the requirements of the by-laws. By this arrangement the Council have been able to lighten the burden of work on Mr. Linstead, to retain his full association with the Society with-

out curtailment of his public work, and at the same time to take the opportunity of making still ampler use of Mr. Adams' knowledge, experience and capabilities.

The statement is signed by the president of the Society (Mr. H. C. Shaw).



The retention of Mr. Linstead as secretary and the appointment of Mr. Adams additional secretary of the Pharmaceutical Society raise nice points of priority.

RETAILERS' CENSUS OF DISTRIBUTION

THE form to be issued to retail distributors in connection with the Census of Distribution, 1949, follows very much on the lines of that to be issued to wholesalers (*C. & D.*, January 8, p. 43). Sections 1, 2 and 3 of the retail form call for the name and address of the business, the year to which the return relates, and a general description of the trade carried on. "Chemist" is given as an example.

Section 4 calls for an indication of method of trading, with the retailer required to state whether his business is a retail shop, department store, bazaar store, etc. This section also asks whether business is by way of hire purchase, credit instalments or payment by check issued by check-trading companies is carried on.

Under section 5, which refers to "services provided," the retailer is asked to state in order of their importance the services (other than the sale of goods) which he regularly provides. Examples include film developing and printing, sight testing, hairdressing, etc., but no mention is made of dispensing (N.H.S. or private).

Sales and Charges for Services

Section 6 relating to "sales and charges for services" calls for the total value of sales and charges for services (turnover) including purchase tax for the year. In the same section the total value of goods sold and that of charges for services are to be shown separately. A further question in this section asks if the retailer carries on a sub-Post-Office business, and if so, to state the total remuneration from this source of income.

The total value (in cost) of goods and materials purchased during the year for resale is required to be stated under section 7.

Section 8 asks for information as to the values of stocks of goods on hand at (a) the beginning of the census year, and (b) at the end of that year.

The number of persons working in the business (including those temporarily absent through sickness or holidays) in the week ending June 25, 1949, is called for in section 9. The return is in three parts—(i) Owners working in business, working proprietors; (ii) members of the owner's family or friends not receiving a definite wage for their work; and (iii) persons on the pay roll of the business including friends or relations who were paid a definite wage, salary or commission. In each section the

number of full-time and part-time employees and the number of males and females is to be given separately.

Section 10 calls for the disclosure of the wages and salaries paid for the week ending June 25, 1949, before any deductions for income tax, insurance contributions, etc. In the same section the total amount of the annual wage and salary bill is to be given, and this figure should include all bonuses, commissions, etc.

Section 11 inquires whether the retailer makes a regular practice of delivering goods to his customers.

Classes of Goods Sold

Under section 12 particulars of the classes of goods sold are required in order to determine clearly the type of business, and the retailer is required to indicate the three groups of goods (in order of importance) which account for the largest share in his total turnover. In the same section the following two questions are asked, to which a "yes or no" answer is required—(i) Do you dispense medicines? (ii) Do you sell spectacles made to prescription?

The last three sections of the form (sections 13, 14 and 15) are not required to be completed by retailers whose turnover during the census year was not more than £5,000. Retailers whose turnover exceeds that figure are required to divide up their total sales into any of the thirty-three groups listed in which they carry on business, stating the amount of the total turnover represented by each group. Amongst the groups included in this section are (a) drugs, etc., and toilet preparations and requisites, (b) photographic goods, (c) optical and scientific goods. In connection with the request for particulars of sales by all groups the form states that "it is realised that you may not keep records of your sales in the different groups, but figures based on your knowledge of your business will be of great value."

Sections 14 and 15 ask whether the retailer sells goods to other retailers, or to trade or industrial users on trade terms, and if the answer to this question is "yes" the amount to such trading is called for.

The census covers England, Scotland and Wales, but not Northern Ireland. Completed forms should be returned to the Census of Distribution Office, Romney House East, Tufton Street, London, S.W.1, on or before March 31, 1950 (Telephone: Victoria 5140, extension 1097).

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

At its January meeting the Council decided to appoint a statistician to report on the man-power situation in pharmacy

A MEETING of the Council of the Pharmaceutical Society of Great Britain was held in London on January 4 and 5, the president (Mr. H. Clement Shaw) in the chair. MR. SHAW referred with regret to the death of William Mair, Edinburgh, who had been a member of the Executive of the Scottish Department.

THE SECRETARY informed the Council that thirty-three persons had been registered as apprentices or students, bringing the total for 1948 to 735. Two persons had passed the Pharmaceutical Chemist examination and been granted diplomas. The Council agreed to restore to the register the names of five persons who had applied for restoration.

Messages of congratulation were sent to Sir Wilson Jameson (Chief Medical Officer, Ministries of Health and Education), Mr. A. Clow Ford (an honorary member of the Society) and Professor F. H. Newman (a member of the board of examiners) on their awards in the New Year Honours. A letter was read from the private secretary to the King acknowledging the Council's message of sympathy. About sixteen messages of greeting were reported received from Pharmaceutical Societies in the Commonwealth and overseas.

Articles of Pupilage Lodged in 1948

MR. C. W. MAPLETHORPE (chairman of the Education Committee) gave an analysis of articles of pupilage lodged during 1948 (see below). MR. H. M. HIRST asked whether the co-operative societies came under "Company" or "Private," and Mr. Maplethorpe replied that they came under private; the number was extremely small (0.4 per cent. of the total).

The Committee's report was classified as follows:—

	MEN	WOMEN
Company pharmacies ...	174	165
Other pharmacies ...	115	65
Hospitals ...	10	28
Manufacturing laboratories	—	2

After considerable discussion on the man-power situation in pharmacy, on which the president himself had contributed a memorandum, the Education Committee made

the recommendation "That a statistician be appointed to investigate the man-power situation in pharmacy and report to the Council."

MR. H. M. HIRST wanted to know whether any maximum fee had been fixed for the service, or whether the Council was committed to an unlimited sum. MR. MAPLETHORPE pointed out in reply that the Council was not committed to any thing. A recommendation was being made to the Council that a statistician should be appointed. He imagined that one or two well-known people would be approached and that the president, with senior executive officers of the Society would discuss the problem with them, arriving at a conclusion which it might be desired to place before the Council. On the other hand, the Council might give the president authority to go ahead and start the arrangement.

Retailers Short of Man-power

MR. E. A. BROCKLEHURST said he was concerned about the man-power situation and could not help wondering how long it would be before statistics were available. Retail members of the Council would know that there was a grave shortage of pharmacists, and would also be aware that many hospitals were without pharmacists. He hoped that something would be done quickly to alter the position, and that until the report was made, no statement would appear in the Press to the effect that the man-power position was satisfactory.

MR. W. S. HOWELLS asked what the Committee hoped to achieve by the statistics when they were to hand. THE PRESIDENT explained that, in the first instance a memorandum had been put before the Council suggesting that there was a shortage of man-power. That had gone to the Committee, and there had been further meetings. There was not, perhaps, so much a shortage of labour as a misdirection of man-power; but, in any event, it was thought that the case for pharmacy was sufficiently important to warrant the exact position being known and appreciated, because a move might have to be made in view of the fact that pharmacists could not be obtained at two weeks' notice. It was a matter of years. It was felt that the

society would benefit by having the information. MR. A. R. MELHUISE agreed that it would be useful to have definite figures available but, at the same time, it was difficult to resist the conclusion that the problem of shortage, so far as retail practice of pharmacy was concerned, would still remain to be solved. The matter under discussion was one which he thought he had foreseen when he expressed the desire at the discussion of the Education Committee's plan some months previously to postpone it a year or so because he felt that something of the sort would eventually have to be done. Indeed, in the report presented to the Council, it could be seen that a certain body that granted diplomas had already received some encouragement to put it no higher than that—from government quarters. He suggested that the problem ought really to have been taken in hand much earlier than the Council appeared to have done.

The recommendation was agreed, and the Education Committee's report accepted.

When the report of the Benevolent Fund and War Aid Committee came under discussion, MR. F. G. WELLS asked whether there was any limit to the expenditure of the Benevolent Fund. He noticed that as much as £4 per week was being given to a recipient, whereas formerly in similar cases the grant had been £52 a year. MR.

A. BROCKLEHURST, in reply, said that applications for assistance were considered very carefully. MR. C. DAVIS asked whether the time were not ripe to reconsider some of the cases that had been passed on at a much lower cost of living.

In his view some of the old cases should be looked into. Mr. Reid pointed out that each case came up for review, usually at the end of the year, and MR. BROCKLEHURST said that members of the Council would be happy in the knowledge that the committee did not give large amounts without having given very careful consideration to all the circumstances.

A list of special contributions to the benevolent and Orphan Funds during December 1948 was laid before the Committee, including £70 from Cheltenham branch, £36 from Reigate and Redhill branch, and £19 from Huddersfield branch. The report was accepted.

Dangerous Drugs Regulations

The Public Services Committee reported that its members were disturbed by certain aspects of the regulations, made

in December 1948, concerning the control of Dangerous Drugs in hospitals. It was decided to ask for an early meeting at the Home Office to discuss the matter, and to protest that the regulations had been made without the knowledge of or consultation with the Society.

Penicillin Case Appeal

On the recommendation of the Law Committee, it was decided that the Society should lodge an appeal, by way of case stated, against the magistrates' decision in the case of the Society *v.* Coombs. (The proceedings arose out of the supply of penicillin in penicillin ointment by a person who, the Society contended, was not one of the persons mentioned in Section 1 of the Penicillin Act, 1947. The summonses were dismissed.) The attention of the Committee had been called to increasing instances in which travelling vans appeared to be used by pharmacists for the sale of pharmaceutical products in rural areas. Mr. Davis (chairman of the committee) said that a keen eye would be kept on the practice; the committee pointed out that there were legal requirements to be observed.

The Council agreed to make available for publication a paper read at a recent conference of the Society's inspectors and agents by Mr. F. C. Highfield, and containing suggestions for improving dispensaries.

VETERINARY ABSTRACTS

Fungus Diseases of Animals.—Reviewing knowledge of fungus diseases of animals in Britain, Ainsworth ("Veterinary Record," 1948.II.405) states that there is considerable confusion on the subject. The state of fungus classification is such that it will be "long" before permanent names can be assigned to all pathogens. He calls for a more thorough investigation of the true status of mycotic diseases in veterinary science.

Canine Hysteria and Diet.—Parry ("Veterinary Record," 1948.II.389) finds that the production of dietary canine hysteria depends on dietary factors which can be classified as primary and secondary. Primary agents include agenisised wheat protein, and there are probably others not associated with the agenisising process. Secondary hysteriagenic factors, which enhance the action of the primary agents, include the carbohydrate/fat ratio, salt, and other factors.

MINISTRY OF HEALTH BULLETIN

THE following abstracts are taken from the twenty-first Bulletin to Pharmacists issued by the Ministry of Health.

Microbes in the Kitchen

By W. C. SLATER

THE efficiency of the dish-washing process is the crux of security against bacterial contamination in handling food in the kitchen and in institutions.

Unquestionably the best method of dish-washing is to dip the dish in hot water, sprinkle on it a few drops of liquid soap or soapless detergent and rub vigorously with a small wet mop; food residues are soon loosened, acid fatty materials emulsified so that rinsing immediately leaves the article quite clean. It is then stood in a rack to dry. This method is very economical in soap consumption and requires no drying cloth; it has the considerable advantage that each article is washed in clean water.

The risk of contamination by pathological bacteria is insignificant, but there remains the question of the contents of the cracks. The detergents used possess a mild bactericidal value, but because of the short time of contact it is unwise to rely on this having any effect whatever. The lowering of the surface tension of the hot wash-water by the detergent is the property that is likely to be of most value; it enables the detergent to enter the crack and to be washed out again in rinsing. Here we are dealing with minute quantities for short periods of time in places difficult of access, and while one can only speculate on what is likely to happen, enough has been written to show that the risk to human health is not significant. The cloths are cleaned by a method that is universal and age-old, the only improvement in it having been introduced about a century ago when a mild chlorine treatment was used to whiten cloths on which soap had no effect. The washing process is reasonably efficient and the only comment a chemist can make is to ask whether the cloth is ever really clean, for it is doubtful whether the last trace of calcium stearate can be removed from cotton fibres without a Soxhlet extraction. The point is not very important as the calcium stearate deposit reaches a maximum the fibre will hold, the maximum being a very small percentage of the total weight of the cloth.

The efficiency of dish-washing machines is remarkable, as advantage is taken in them of a higher temperature than is pos-

sible in hand-processes and also the power that can be used is much greater.

Spirochætosis Ictero-hæmorrhagica

By G. M. FINDLAY, C.B.E., M.D.

Spirochætosis ictero-hæmorrhagica, leptospirosis, or, less correctly, Weil disease or leptospiral jaundice, is one of many diseases transmitted to man by the rat. The designation "Weil's disease" is inaccurate because Weil, a German physician, was not the first to describe the infection, and "leptospiral jaundice" is unfortunate because a considerable proportion of patients suffering from leptospiral infections never develop jaundice.

The casual agent of spirochætosis ictero-hæmorrhagica is a leptospira, a spirochæte not unlike that responsible for syphilis and known as *Leptospira ictero-hæmorrhagica*.

Just before the 1914-18 war it was realised that there existed two forms of jaundice; one which was comparatively mild and attacked more especially children and adolescents and often occurred in epidemic form: this is now called infective hepatitis and is due to a virus. The more severe form which may attack persons of any age, now recognised to be leptospiral in origin. In 1914, Inada and other Japanese bacteriologists discovered the causal leptospira and showed that the infection could be transmitted to guinea-pigs. During the trench warfare of 1914-18 a number of cases occurred in soldiers. Spirochætosis ictero-hæmorrhagica is now known to be widely distributed throughout the world and has been found in every continent.

Sources of Infection

The majority of cases of spirochætosis ictero-hæmorrhagica in man are due directly to infection from the rat. The leptospira lives in the rat's kidneys without causing any symptoms of ill-health; it is, however, excreted in the rat's urine. A substance which can be contaminated by the urine of rats is a possible source of infection to man, and the larger the number of rats in any locality, and the closer their association with man, the greater the liability to contamination. House mice and field voles may also carry the leptospira without showing signs of illness. Bandicoots and foxes have been incriminated. There is evidence that the leptospira

tain admittance to the body by minute perforations; they can also pass through mucous surfaces such as the lining of the back of the nasopharynx and of the conjunctival sac. The two main sources of infection for man are contaminated food and contaminated water.

Butchers and meat porters, poultry fanciers and those who work in fish markets or in sewers are the most likely to come in contact with material contaminated by rats because of the large amounts of food and offal available in these localities. In the summer months, those who bathe in canals, ponds or stagnant pools in rivers, more especially in built-up areas, run a considerable risk of infection.

Symptoms

The incubation period of leptospirosis (ictero-hæmorrhagica) is usually from two to twelve days. The onset is generally sudden with rigors, vomiting, headache and pains in the back, neck and limbs. The temperature is irregular, but may vary from 93° to 105° F. and falls by lysis usually from the fifth to the tenth day. Sometimes a febrile relapse occurs. Lassitude and severe prostration are prominent. Jaundice, if present, is seen about the fourth or fifth day, deepening for four or five days, and then disappearing rapidly. In a variable number of cases jaundice is absent, the number without jaundice increasing as diagnosis becomes more common and more accurate. The urine is highly coloured and contains urobilin and renal casts; not infrequently red cells are present. Labial herpes is common. At an early stage of the disease there is a leucocytosis of from 10,000 to 12,000 cells per c.mm. and largely composed of polymorphonuclear leucocytes. This is a point of importance in the differential diagnosis from infective hepatitis. The liver may be enlarged and splenomegaly is common. Not infrequently patients exhibit meningitic symptoms, often in the absence of jaundice; less commonly pholidal or uræmic symptoms are seen. In addition to the severe toxic form of hæmorrhages there may be every variation of intensity down to a mild febrile disturbance in which the temperature may never reach as high as 100° F.

Prognosis

The mortality rate in different epidemics has shown considerable variation. Among fish workers in Aberdeen the mortality was 25 per cent. A comparison of

figures from various countries shows that where the greatest number of cases is diagnosed there is the lowest death rate. Thus in Holland the death rate is 9.4 per cent., in England 27 per cent. and in the United States of America 40 per cent. This difference is readily explained by the frequency with which the disease is diagnosed—the mortality among icteric is higher than among non-icteric cases; in England all the fatal cases, with one exception, have had jaundice.

Earlier attempts to treat leptospirosis either with specific immune serum or with drugs such as arsenic or bismuth gave little result. It has now been found that penicillin, provided it is given in sufficiently large doses, promptly reduces the temperature. Thus in five cases to whom penicillin was given the average duration of temperature after institution of therapy was two days, whereas the average total duration of temperature in the five cases was seven days. At least 300,000 units are now given daily for the first three days of treatment; thereafter, if the temperature has fallen to normal, 200,000 units a day are given for three days and 150,000 units a day for a further two days.

Prevention Methods

The most important measure is the destruction of rats and the prevention of their access to food or water. Earlier methods of rat destruction involved the use of arsenicals and of pathogenic bacteria of the food-poisoning (*Salmonella*) group. During the recent war various new rodenticides were developed. Two of these are of great promise. Antu, *alpha-naphthylthiourea*, is a fine grey powder, insoluble in water or acids but slightly soluble in alkalis. It is stable under normal conditions and has a melting point of 184° C. Its toxicity (LD 50) for *Rattus norvegicus* is 7 mgm. per kilo of body weight and for *Rattus rattus* 100 to 400 mgm. Antu has been used in extensive campaigns in America as a mixture (2 to 5 per cent.) with finely ground grain such as maize or wheat and as a dust either on vegetable foods or blown in runways or on the surface of water. "Ten-eighty" is sodium fluoracetate which is extremely soluble in water. The LD 50 for black rats is 0.1 mgm. per kilo of body weight, for *R. norvegicus* 5 mgm. and for dogs 0.35 mgm. Rat-infested waters must be avoided for bathing, washing or drinking. Chlorination of water destroys the leptospira.

Certain Problems of Deafness

By

E. J. GILROY GLASS, T.D., F.R.C.S.E.

In recent years the public has become more interested in the problem of deafness. We might still divide deafness into four categories: deafness due to wax; deafness for which treatment can be given with a reasonable hope of improvement; deafness which can be ameliorated by the use of a hearing aid; and a last, and fortunately smaller group for which nothing whatever can be done.

Almost every patient who commences to go deaf will think, and hope, that it is only due to wax, and, even if he seeks the advice of his doctor at this stage, the first step in diagnosis may well be to remove the wax and see whether thereby the hearing is restored. There are one or two points which may suggest that the deafness is, in fact, due to wax; the deafness is rarely profound, or of long duration, there is generally no history of pain or discharge, not infrequently the onset is sudden and comes on after getting water in the ear, and frequently the patient will say that it has happened before. Sometimes the first demand from a patient will be for "something to soften the wax." Almost any oil will be effective, but I have found the following the most effective, and is quite harmless:

Dilute ointment of mercuric nitrate	30 gr.
Olive oil	120 gr.
Liquid paraffin	to 1 oz.

At one time it was a common practice, particularly in country districts, for patients to have their ears syringed by the chemist. Perhaps it is all to the good that the practice is much less common now, but it may still be carried out. A word of warning, therefore, is perhaps not out of place. If there is pain, or if the ear has ever discharged, at any time, it is a job for the doctor. There is no exception to this rule.

A considerable number of cases of deafness are amenable to treatment, the conditions ranging from a catarrh of the Eustachian tube (which leads from the nasopharynx to the middle ear) to catarrh of the middle ear itself, or suppurative otitis media. They are due to infection. The infection arises almost invariably in the nasopharynx, the most common cause being adenoids in children, or infected sinuses in an adult. These catarrhal, or suppurative, conditions lead in time to permanent deafness, but if adequately

treated in the early stage, the hearing can be restored to a greater, or lesser, degree.

The Fenestration operation is performed in otosclerosis only—a form of progressive deafness and head noises, starting, as a rule, in early adult life. The basis of the operation is to drill a hole into the bony capsule of the organ of hearing, in order to permit of the passage of sound waves. It can only be successful if there is a reasonable residue of hearing, and the chances of success become progressively less with increasing age.

Hearing Aids

The Medresco hearing aid, which is provided through the National Health Service, is an electrical hearing aid. The aid has been designed to suit the commoner forms of deafness, and as such it well fulfils its purpose. No bone conductor receiver is made, but those patients who can hear with a bone conductor only are very few. There is only one proof of the value of any hearing aid to any particular patient and that proof is intelligent trial in the patient's normal surroundings. The Medresco hearing aid can only be obtained on the prescription of a recognised specialist through a recognised distribution centre. Although not every hospital will have a distribution centre, all the larger hospitals with an ear, nose and throat department will have a diagnostic centre.

There is a prejudice against the non-electrical aids, probably largely as the result of their bulk, but it is an unquestionable fact that there are many patients who will benefit far more from a collector aid, than an electrical one. At the moment the Medresco hearing aid is in short supply, and there may be some considerable delay in fitting the aid to any particular case, but supply is likely to become better.

It is tragic to hear the oft repeated story given by a deaf adult that he had "the ordinary earache as a child," as if this condition were an inevitable happening in childhood, to be regarded lightly, or even disregarded entirely. Probably the vast majority of the cases of middle ear deafness which are seen in adult life had their origin in a neglected otitis media of childhood. It cannot be too strongly emphasised that every child with earache, or a discharging ear, should have adequate treatment, and a pharmacist who emphasises the importance of this whenever he hears of a case is doing a great service to mankind.

NEW BOOKS

International Mercantile Diary & Yearbook, 1949.— $9\frac{1}{2}$ in. x 7 in. Pp. 311, with fourteen appendices and week-to-a-page diary. 30s. Syren & Shipping, Ltd., 26 Milliter Street, London, E.C.3. Now in its thirty-third year, this publication has proved itself an indispensable desk-book for exporters and importers.

Refrigeration Note-Book.— $2\frac{5}{8}$ in. x 5 in. Pp. 368. 10s. Leonard Hill, Ltd., 17 Ratford Place, London, W.1. This vest-pocket book contains 62,000 words. There are 212 pages of text, dealing with principles of heat transfer, plant insulation, etc., with forty-two diagrams and plates, and sixty-seven tables, of which a thirteen-page table of data for foodstuffs is worthy of special mention.

Rheology in Relation to Pharmacy and Medicine.—G. W. Scott Blair, M.A., D.Sc., R.I.C., F.Inst.P. $8\frac{1}{2}$ in. x $5\frac{1}{2}$ in. Pp. 20. 2s. The Pharmaceutical Press, 17 Bloomsbury Square, London, W.C.1. Two special university lectures given by Dr. Blair at the College of the Pharmaceutical Society are printed as a booklet. The author attempts to analyse, particularly from a biological point of view, some of the general problems of rheology. Professor H. Berry (Dean of the School of Pharmacy) writes a foreword.

Canada—Economic and Commercial Conditions in Canada, 1947. R. Keith Pearson, O.B.E. $9\frac{1}{2}$ in. x 6 in. Pp. 166. 3s. Department, Board of Trade by H.M. Stationery Office. Adopting the pattern of earlier books in the series, the book surveys all aspects of commerce and industry, administration, etc., of the Dominion. Intending exporters are reminded to study the Food and Drugs Act (Chapter 76 of the Revised Statutes of Canada, 1927) and amendments and a summary of the main provisions is given. Valuable statistical information is provided in appendices, including (in Appendix XI) lists of articles of which exports are either prohibited or on a quota basis.

Practical Methods in Biochemistry.—C. Koch and M. E. Hanke. 9 x 6 in. Pp. 419. 16s. 6d. In Great Britain, H. K. Tindall & Cox, 7 & 8 Henrietta Street, London, W.C.2. The main changes in the fifth edition of this American work are an expanded section on manometric termination, the inclusion of microbiological assays of vitamins and amino acids (some twenty pages), and of new or revised colorimetric and fluorometric methods of

determining aneurine and riboflavine. Like its predecessors, the edition is designed primarily for medical students, and deals particularly with quantitative aspects of biochemistry. An appendix of some sixty pages is devoted to the preparation of reagents and standard solutions, and to general laboratory technique.

A Hundred Years of Chemistry.—Alexander Findlay. $8\frac{1}{2}$ in. x $5\frac{1}{2}$ in., second edition. Pp. 318. 21s. Gerald Duckworth & Co., Ltd., 3 Henrietta Street, Covent Garden, London, W.C.2. First published in 1937, the work is one of a series of nine volumes in the publishers' "Hundred Years" series, the other titles dealing with other sciences, music, archaeology, etc. The survey aims to trace how chemists have studied the properties and transformations of matter, formulated theories from their observations, how they have synthesised compounds in accordance with their analyses of internal structure, and how their knowledge has been turned to practical account. The new edition extends the same approach to a survey of the advances of the past decade, especially the constitution of the atomic nucleus and the artificial transmutation of elements. Like the first, it contains in an appendix "potted" biographies of outstanding chemists in the period covered by the work.

Applied Chemistry (Vol. II, Foods).—C. K. Tinkler, D.Sc., F.R.I.C., and Helen Masters, B.Sc. $8\frac{1}{2}$ in. x $5\frac{1}{2}$ in. Pp. 284. 16s. Technical Press, Ltd., Gloucester Road, Kingston Hill, Surrey. Written primarily for students of household science and public health the work, the second volume of which has been revised and reprinted, deals with subjects such as the composition and examination of milk, edible oils, carbohydrates, meat, meat extracts, and raising agents that closely border the pharmaceutical province. In addition to describing systematically the techniques for examining the food substances and adulterants covered by the text, the authors give considerable space to explaining the principles and methods employed. These include optical rotation and the use of the polarimeter, pH , and the saponification, acid and iodine values of oils. Advice (p. 146) to steep egg powder in cold water overnight to obtain best cooking results overlooks significant bacteriological factors, and conflicts seriously with the advice of other food authorities.

COMING EVENTS

Monday, January 17

ISLE OF THANET BRANCH, PHARMACEUTICAL SOCIETY, Saracen's Head, Margate, at 8 p.m. Dr. R. D. Andrews on "Bacterial Resistance and Immunity."

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Red Cross Rooms, Hockins Hey, at 7 p.m. Annual meeting.

Tuesday, January 18

BLACKPOOL BRANCH, PHARMACEUTICAL SOCIETY (JUNIOR SECTION), Palatine Hotel, Blackpool, at 7.30 p.m. Mrs. J. Gilbert, B.Pharm., Ph.C., on "Modern Advances in Therapeutics."

BRADFORD BRANCH, PHARMACEUTICAL SOCIETY, Room 14, Midland Hotel, Bradford, at 7.30 p.m. Lecture by Dr. J. Douglas (medical officer of health for Bradford).

CHADWICK PUBLIC LECTURE, Royal Society of Tropical Medicine and Hygiene, 26 Portland Place, London, W.1, at 2.30 p.m. Dr. R. F. Bridgman (of the *Ministère de la Santé Publique*, Paris) on "Health Services in France."

FINE CHEMICALS GROUP, SOCIETY OF CHEMICAL INDUSTRY, Large Anatomy Theatre, King's College, Strand, W.C.2, at 7 p.m. Discussion on "The Approach to the Chemotherapy of Tuberculosis" to be opened by Messrs. James Walker, Ph.D., D.Phil., D.Sc., and P.M. D'Arcy Hart, M.D., F.R.C.P.

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Hotel Metropole, Leeds, at 7.30 p.m. Talks by members.

WALTHAMSTOW BRANCH NATIONAL PHARMACEUTICAL UNION, Conway Hall, High Street, Walthamstow, London, E.17, at 8 p.m. Mr. J. Wright, Ph.C. (N.P.U. National Health Service Department) on "N.H.S. Miscellany."

Wednesday, January 19

DUNDEE AND EAST AND CENTRAL SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Kidd's Rooms, Dundee. Whist drive (7-8.50 p.m.), dinner (9 p.m.) and dance (dress optional, tickets 15s. each).

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Lecture Room, Nether Chapel, Norfolk Street, Sheffield, at 7.45 p.m. Mr. T. Reid on "The Work of the Society's Council."

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, South Hants Hospital, Farshawe Street, Southampton, at 8.30 p.m. Mr. J. T. Marsh on "Penicillin."

Thursday, January 20

HARROW EMPLOYEE PHARMACISTS' ASSOCIATION, Baptist Church Hall, College Road, Harrow, at 8 p.m. Meeting to adopt constitution.

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, 7 Marine Place, Plymouth, at 7.30 p.m. Mr. Peter Jones, M.P.S., on "Impressions of Pharmacy in the New World."

NORTHERN IRELAND SECTIONS, CHEMICAL SOCIETY AND SOCIETY OF CHEMICAL INDUSTRY, Lecture Theatre, Department of Agricultural Chemistry, Queen's University, Belfast, at 7.30 p.m. Sir Jack Drummond, D.Sc., F.R.S., on "Nutritional Experience."

THAMES VALLEY PHARMACISTS' ASSOCIATION, Kingston Hotel, Kingston-on-Thames, at 7.45 p.m. Debate between Wimbledon pharmacists (led by Mr. F. C. Wilson, for the motion) and the Thames Valley Association (led by Mr. A. Mortimer, against) "That the Advertising of Dispensing Services is Detrimental to the Profession."

Friday, January 21

LONDON BRANCH, GUILD OF PUBLIC PHARMACISTS, 17 Bloomsbury Square, London, W.C.1, at 8 p.m. Dr. W. A. R. Thompson, on "Heparin and Dicoumarol."

EIRE PHARMACEUTICAL CHEMISTS' AND STUDENT CLUB is holding its twenty-first annual dance at the Metropole Ballroom, Dublin, on Thursday January 27. Tickets (12s. 6d. each including supper) from Mr. M. Walshe, 19 Tivoli Terrace North Dun Laoghaire, or from any committee member.

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, visiting the Wembley works of the British Oxygen Co., Ltd., on Thursday, February 17.

INQUESTS

Explosion in Thorax.—An inquest was held at Birmingham recently on a sixty-three-year-old man who had died in hospital from blast injuries resulting from an explosion within his body during a chest operation. The pleura was inadvertently opened during the operation, it was stated, which broke down the closed circuit of the anæsthetic (cyclopropane and oxygen). The consequent contact of the gaseous mixture with the heated knife caused the explosion. A verdict of death by misadventure was recorded.

Allergic to Aspirin.—An inquest was held at Walsall recently on a fifty-two-year-old man who had died after taking one 5-gr aspirin tablet. A pathologist reported that the dead man had been suffering from hydrocephalus, and was therefore "peculiarly allergic to aspirin." The doctor who had prescribed aspirin tablets for the man for "a slight weakness of the leg," stated that his patient had forgotten to mention when he had been rendered unconscious that he had taken aspirin on a previous occasion. A verdict of death from natural causes was recorded.

Chlorodyne on Prescription.—The widower of a sixty-four-year-old woman on whom an inquest was held recently, at Ilford, Essex, told the coroner that his wife had been given a chlorodyne mixture on prescription for several years. Recently she had been taking two or three bottles a day. The manager of a pharmacy in Seven Kings from which she formerly obtained supplies had ceased supplying her at the beginning of 1948, but the mixture had been obtained elsewhere. A pathologist stated that the cause of death was the regurgitation of food into the air passage. A verdict of accidental death in accordance with the medical evidence was returned.

CORRESPONDENCE

Identity of a Committee

SIR,—Please accept my thanks for your reference to my retirement (*C. & D.*, January 1, p. 9). I may mention, however, that the minimum prices committee of which I was secretary from 1916 was the Birmingham Minimum Prices Committee, which has no connection with the Proprietary Articles Trade Association beyond including alterations as issued.

HENRY H. MARSHALL.
Birmingham, 13.

N.H.S. Payments

SIR,—Permit me to point out an error in the title of your leading article in the January 1 issue of *THE CHEMIST AND DRUGGIST* (p. 17). It should, of course, read:—"Endorsed, Sorted, Counted and Labelled, But Not Paid For."

MANENDUS.

SIR,—The correspondent who wrote about the new idea for sorting N.H.S. scripts is "bureaucracy gone mad" (see *C. & D.*, January 8, p. 59) should realise that he will get his cheque much earlier if he carries out the simple plan in the way adopted by myself (sole pharmacist in a very busy pharmacy), which is as follows: Two large bulldog-type paper clips are fixed to the wall. All "under 6d." scripts are, after completion and stamping, put on one; and on the other are put all the others ("D.D.A.'s" so marked, Prepared extemp., and anything unusual with the cost price pencilled on the price is always marked on incoming stock before it is put away). At the end of each week, the scripts and forms are counted, the number pencilled on the back of the last, an elastic band slipped round each bundle and the bundle put away in a box until the end of the month. The completion of Form E.C.34 then takes only a few seconds, and the bundling and labelling a few seconds more. The whole thing is in my opinion less trouble than writing in doctor order, and can, in fact, be quite exciting. One other tip that seems to please the local doctors: Patients attend surgery holding an empty bottle; the doctor is asked for a new prescription of the same medicine, which has done good. He looks at the label, sees "43 C" and the space for script number and writes "Mist, Gent. Acid." Patient thinks he's pretty good to remember what he gave last time, but we know of course that

the number "43" means page 43 in the National (War) Formulary, and the "C" means the third item on the page. We do it with all N.(W.)F. formulas and, on the one occasion that we omitted the number, the doctor telephoned to ask why the omission! The adoption of this system officially (in which case the N.(W.)F. would bear printed numbers), would, I am sure, be a real help towards the speeding up of the service.

Twyford.

C. H. PATRICK.

Echoes of a Famous Trial

SIR,—Had your correspondents under that heading (*C. & D.*, October 30, 1948, p. 567) referred to original sources they would speedily have established that Madeline Smith admitted making three purchases of arsenic; that, contrary to her declaration, two lots were bought at Currie's and one at Murdoch's; that George Murdoch, a partner in Murdoch Brothers, druggists, Sauchiehall Street, and John Currie, chemist and druggist, Sauchiehall Street, gave evidence of purchases of arsenic from their separate establishments; that their assistants (James Dickie and George Carruthers Haliburton respectively) testified that, in each instance, the transactions were set down and signed in "Fisher's Sale of Poisons Registry Book," both of which were Court exhibits; and that the purchase from Murdoch's was put to the purchaser's father's account! They would also have discovered that Madeline had earlier attempted, by the hands of a page-boy, to buy prussic acid from a doctor's shop; that for the defence John Robertson, druggist, of Queen Street, Glasgow, gave a hazy account of an attempted purchase of arsenic by a youth, and that Peter Guthrie, manager of Frazer & Green's establishment in Sauchiehall Street, deposed that a young lady produced, as her reason for wishing to purchase arsenic, an article in Blackwood's Magazine on the use of arsenic as a cosmetic, and that Mr. Peter Guthrie refused this explanation. L'Angelier's stomach yielded 88 grains arsenious acid—a quantity which, if not a record, is still quoted in Glaister's "Medical Jurisprudence." If your correspondents care to follow up their researches there is excellent material in "The Trial of Madeline Smith" in the Famous Trials Series and in the "Glasgow Herald" files.

JOHN B. I. LAURENSEN.

Aberdeen.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, Jan. 12

A STEADY demand is reported for PHARMACEUTICAL and FINE CHEMICALS, and with relatively few exceptions supplies of products are adequate for current home-trade needs. A further reduction of sixpence per lb. in the price of synthetic CAMPHOR has been announced by makers; quantities of 100 lb. are now offered at 5s. per lb. Activity in CRUDE DRUGS markets has been slight in extent. ERGOT is somewhat easier on spot, with shipment prices erratic, ranging from 4s. 10d. to 5s. 3d. per lb., c.i.f. Spot stocks of GENTIAN are moving at 60s. per lb. although in some quarters rather lower prices are mentioned. Dealers are asking 23s. 6d. to 24s. per lb. for IPECACUANHA on spot and the forward market shows a firm tone. Prices of Florentine and Verona ORRIS ROOT have been reduced. A fair business has been done in common round RHUBARB at 4s. 9d. per lb. In other sections of the markets, BALSAM TOLU is selling at slightly lower prices, while quotations for BENZOIN, Sumatra almonds, are now at £45 per cwt. CURAÇAO ALOES is an easy market. In SPICES, export trade has considerably reduced stocks of CAPSICUMS and CHILLIES and the market is firmer. Little if any supplies of Nigerian chillies are now available. A moderate trade has been done in GUM ACACIA for export. Prices of WAXES are unchanged; OURICURI WAX is scarce on spot. Business in ESSENTIAL OILS has been small. JAVA CITRONELLA is scarce on spot and forward prices are higher. Reports from Grasse indicate that higher prices are being quoted there for LAVANDIN and LAVENDER, but it is understood that no supplies are being imported from France at present. Stocks of PATCHOULI OIL in Singapore are not plentiful and the market is hardening. In some instances recent supplies of "Malayan" patchouli have been prepared from raw materials grown in Sumatra and have thus been liable to a duty of 10 per cent. on importation into the United Kingdom.

U.S. Drug and Chemical Report

New York, January 7

PRINCIPAL price changes in FINE CHEMICALS during the past week included an increase in CALAMINE in bulk which was raised from 27 cents per lb. to 29 cents, while STREPTOMYCIN SALTS and DIHYDRO-STREPTOMYCIN were both reduced 25 cents per gm. CINCHOPHEN, RIBOFLAVINE, SULPHAMERAZINE, SULPHATHIAZOLE and their SODIUM SALTS are all to be advanced on February 1. Activity on the CRUDE DRUGS market was seasonally at a standstill last week and price movements were very few. Several lots of STYRAX were

reported to have arrived from Turkey and about 250 cases of Jugo-Slavian CHAMMILE FLOWERS are understood to have been landed during the week. Both Madagascar and Mexican VANILLA BEANS are reported to be firmer. MERCURY quotations are nominal at \$86 to \$90 a flask, or to seven dollars below the levels which became generally quoted after the Spanish Italian cartel announced its \$14 increase. Demand for the metal is almost negligible. MENTHOL is also easier and spot price range from \$8.95 to \$9.15 per lb. against an inside price a week ago of \$9; goods arrive later in the month are available at \$8.80 per lb. and Brazilian new-crop March-April shipment is offered at \$7.

A fairly good inquiry for ESSENTIAL OILS deliveries during the early part of the New Year was reported by dealers. ROSE OIL moved into a firmer position during the week, while firmness continued to feature the LEMON market. Developments in AROMATIC CHEMICALS included an advance of 40 cents in the quotation for CITRAL (to \$3.65 per lb.), and it was stated that IONONE prices would probably move upward in line with the hardening situation in LEMONGRASS OIL.

Pharmaceutical Chemicals

ATROPINE.—Steady. Makers' rates per oz. are: ALKALOID, 41s. 3d.; 4 oz., 40s. 9d.; 25 oz., 40s. 3d. SULPHATE, 32s. 9d.; 4 oz., 32s. 3d.; 25 oz., 31s. 9d.

CALAMINE.—Makers are asking 1s. 9d. per lb. for quantities of 1 cwt., one penny per lb. above recent prices.

CODEINE.—Steady. Current prices per oz., in the home market, are: ALKALOID, 51s. 9d.; 1 oz., 49s. 3d.; 2 oz., 47s. 9d.; 3 oz., 47s.; 4 oz., 46s. 9d. HYDROCHLORIDE, 1/2 oz., 46s. 4d.; 1 oz., 44s.; 2 oz., 42s. 6d.; 3 oz., 41s. 9d.; 4 oz., 41s. 6d. PHOSPHATE, 1/2 oz., 40s. 9d.; 1 oz., 38s. 3d.; 2 oz., 36s. 9d.; 3 oz., 36s.; 4 oz., 35s. 6d. HYDROBROMIDE and IODIDE as ALKALOID SULPHATE as HYDROCHLORIDE.

IODINE PREPARATIONS.—Steady. Make prices per lb. for the home trade are as follows: POTASSIUM IODIDE, B.P.—1 cwt., 11s. 1d. SODIUM IODIDE, B.P.—28 lb., 12s. 1d. IODOFORM, B.P.—28 lb., powder, 15s. 7d.; crystals, 17s. 7d. RESUBLIM IODIDE, B.P.—1 cwt., 12s. 8d. Orders of 28 lb. and upwards may be made up with assorted preparations at schedule rate. Packages are extra. Contracts may be booked for 1 cwt. and over of assorted preparations for delivery as required with three months with rise and fall clause. Special rebate of 4d. per lb. allowed on quantities of 5 cwt. in one delivery, or on contract for delivery within three months.

ETHYLMORPHINE.—Home trade prices per oz.: ALKALOID, $\frac{1}{2}$ oz., 57s. 6d.; 1 oz., 2s.; 2 oz., 53s. 6d.; 3 oz., 52s. 9d.; 4 oz., 5s. 6l. HYDROCHLORIDE, $\frac{1}{2}$ oz., 49s.; 1 oz., 5s. 6d.; 2 oz., 45s.; 3 oz., 44s. 3d.; 4 oz., 4s. Prices are unchanged.

GLYCERIN, B.P.—Prices are steady. Current rates per cwt. are as follows:—

Contracts or spot lots of	Under 1 cwt.	1 cwt. and under 2½ cwt.	2½ cwt. and under 5 cwt.	5 cwt. and under 10 cwt.	10 cwt. and under 20 cwt.
Minimum deliveries off contract of	—	1 cwt.	1 cwt.	1 cwt.	2 cwt.
as:	s. d.	s. d.	s. d.	s. d.	s. d.
14-lb. ..	156 6	152 0	151 0	148 0	147 0
28-lb. ..	153 6	149 6	148 6	145 6	144 6
56-lb. ..	150 6	147 0	146 0	143 0	142 0
Drums					
per cwt. ..	—	136 0	135 0	132 0	131 0
per cwt. ..	—	—	133 0	130 0	129 0
per cwt. ..	—	—	—	129 6	128 6
per cwt. ..	—	—	—	—	128 0

ton and under 5 tons (minimum deliveries off contract of 5 cwt.), 14-lb. tins, 3s.; 28-lb., 140s. 6d.; 56-lb., 138s., cwt. drums, 127s.; 2½-cwt., 125s.; 5-cwt., 4s. 6d.; 10-cwt., 124s. 5 ton and upwards (minimum deliveries off contract of 5-cwt.), 14-lb. tins, 141s. 6d.; 28-lb., 139s.; 56-lb., 136s. 6d.; 1-cwt. drums, 125s. 6d.; 2½-cwt., 123s. 6d.; 5-cwt., 123s.; 10-cwt., 2s. 6d. Extra charges are levied for smaller deliveries, ex contract, from 6d. to 1s. per cwt., according to quantity. Refined pale straw industrial glycerin is 5s. per cwt. less than chemically pure. Terms of carriage and delivery paid. A discount of 1 per cent. is deducted if paid in one month, or on buyers' regular monthly payment in the month following delivery; afterwards net. Tins and cases free (not returnable). Drums loaned and invoiced at makers' current rates and credited in full if returned within four months, carriage forward and in good condition.

MAGNESIUM TRISILICATE (B.P.).—Prices per lb. in the home trade are unchanged. Containers in brackets. 28 lb. to 1 cwt., 4d. (1-lb.); 4s. 3d. (2-lb.); 4s. 2½d. (3-lb.); 4s. 1½d. (7-lb.); 4s. 1d. (14-lb.); (28-lb.) per lb. Bulk quantities range from 3s. 2d. to 3s. 4d. per lb. in 28-lb. packages, as to quantity, carriage paid.

ROCHELLE SALT.—Current rates per cwt. of powder are: 1 cwt., 152s. 6d.; 5 cwt., 70s. SEIDLITZ POWDER, ordinary strength quoted at 118s. 9d.; extra strong, 128s.; double strength, 133s. 3d. per cwt.

THYMOL, B.P.—Prices from maker are from 17s. 9d. to 18s. 6d. per lb.; 20s. per asked for small quantities.

ZINC OXIDE.—Quantities of 1 ton are quoted at £110 15s. per ton; 3 cwt. and over, £111 15s.; under 3 cwt., £113 5s.

Crude Drugs

ACONITE.—Steady, with little inquiry. Indian, on the spot, is quoted at 275s. per cwt.; *napellus*, offered at 3s. 10½d. to 4s. 3d., duty paid.

AGAR.—Kobé No. 1 strip on spot is quoted at 16s. 6d. to 17s. per lb., with other grades of Japanese strip down to 14s. 6d. per lb., duty paid; forward, 14s. to 15s., c.i.f., nominal. South African powder, in tins in cases, quoted at 20s. per lb., spot.

ALOES.—Cape on the spot is offered at from 110s. to 115s. for prime quality. Curaçao is an easy market with dealers asking from 185s. to 210s. per cwt., as to quality. Socotrine, 160s. to 180s. per cwt., spot.

BALSAMS.—*Canada*, 19s. per lb., spot. *Pará Copaiba* (soluble), 4s. 9d. to 5s. per lb., spot. *San Salvador, Peru*, 5s. per lb., duty paid. *Tolu*, easier at 13s. to 13s. 6d. per lb., spot; shipment, 11s. 9d., c.i.f.

BENZOLIN.—Sumatra block on the spot is from £14 to £16 per cwt., as to quality; Sumatra almonds, £45. Siam free almonds, spot, £120 per cwt.

BISMUTH.—Metal is steady at 10s. 9d. per lb. for minimum 5-cwt. lots.

BLACK COHOSH ROOT.—Prices, ex wharf, are in the region of 1s. 10d. per lb.

BLACK HAW BARK.—Quotations for tree bark are about 3s. 3d. per lb., duty paid.

BUCHU.—Short rounds scarce on spot at 4s. per lb.; ovals, 3s. 6d. New-crop prices are not yet available.

CAMPHOR.—Chinese tablets are offered at from 7s. 6d. to 8s. 6d.; refined natural powder (B.P.), 6s. 9d.; B.B. grade, 6s. 3½d.; slabs (2½-lb.), 7s. 3d.; crude powder, 6s. per lb., all spot London, duty paid. English synthetic powder, B.P., is quoted at 5s. per lb. in 100-lb. lots.

CANTHARIDES.—Steady. Spot quotations for Chinese are at about 8s. 3d. per lb.; shipment, 4s. 6d. per lb., c.i.f.

CAPSICUMS.—African on spot is offered at from 90s. to 130s. per cwt., as to quality.

CASCARA SAGRADA.—Quiet. 1946 and 1947 peeled bark is offering at around 200s. per cwt., 1948, 190s. per cwt., duty paid.

CHILLIES.—Firm. Mombasa on spot, 120s. per cwt.; Zanzibar, 130s.; Japanese-type, 160s.

ERGOT.—Portuguese sound material on spot is available at 5s. 6d. per lb.; shipment quotations range from 4s. 10d. to 5s. 3d. per lb., c.i.f., as to quality and shipper.

GENTIAN.—French natural on spot is quoted at from 57s. 6d. to 60s. per cwt., with business done at the higher value; sliced root is offered at 75s., spot.

GINGER.—African on spot is quoted at 87s. 6d. per cwt. Jamaican No. 1 quoted at 130s.; No. 2, 125s.; No. 3, 122s. 6d. per cwt., spot.

GUM ACACIA.—Steady. Kordofan cleaned sorts on the spot are offering at 65s. per cwt.; shipment, 60s., c.i.f. Bleached No. 1, 125s., spot; shipment, 115s., c.i.f. Tama on spot, 45s. per cwt.; forward, 41s., c.i.f.

IPECACUANHA.—Spot quotations are from 23s. 6d. to 24s. per lb.; forward, firm at 22s., c.i.f., for January-February shipment.

JABORANDI.—Spot quotations are around 75s. to 80s. per cwt., as to quality.

KOLA NUTS.—African quarters are offered at about 6d. per lb.; halves from 2d. to 2½d. Jamaican washed halves are quoted at 3d. per lb.

LEMON PEEL.—Supplies are available on spot at 9d. per lb., duty paid.

LEPTANDRA ROOT.—Spot supplies are offering at 3s. 3½d. per lb.

LIQUORICE.—Anatolian natural, spot, from 47s. to 50s. per cwt., as to holder; Syrian, 40s.; Russian, 45s. 6d. to 46s. Italian block, 275s. per cwt., spot; Italian stick, from £375 to £560 per ton, as to quantity and grade. Turkish block, from 225s. to 235s. per cwt.; American block from 220s. to 225s. per cwt.

MACE.—West Indian blade on the spot is quoted at 6s. 9d.; pickings, 4s. 6d. to 6s. per lb., according to quality.

MENTHOL.—Brazil on the spot is offered at 44s. per lb., duty paid; supplies to come forward, 42s., duty paid value. Shipment, February-March, 34s. 6d. per lb., c.i.f.

MERCURY.—Ex warehouse, £18 10s. per flask; shipment, £17 17s. 6½d., c.i.f. U.K.

MYRRH.—Steady. Aden sorts, £12 per cwt.; siftings, £6 10s. to £7 per cwt., spot.

NUTMEG.—Steady. West Indian 80's on the spot, 3s.; sound unassorted, 2s. 10d.; wormy and broken, 1s. 8d. per lb.

NUX VOMICA.—Quiet. Madras, spot steady at 40s. to 42s. 6d. per cwt.; Mangalore, 40s.; Cochin, 42s. 6d., spot.

ORRIS.—Florentine root on the spot is offered at 125s. per cwt.; Verona root, 105s. per cwt., spot. An easier market.

PAPAIN.—East African No. 1 white, 18s. per lb., spot; Ceylon brown, 12s.

PIMENTO.—Quiet. Quotations are from 1s. 2½d. to 1s. 3d. per lb., spot; to arrive, 119s. per cwt., c.i.f.

PSYLLIUM SEED.—French black is quoted at 2s. per lb., duty paid; Indian (isphagula), 120s. per cwt., spot.

QUASSIA.—Spot quotations for chips are 35s. to 36s. per cwt., as to holder.

QUINCE SEEDS.—Steady. Cape on spot is quoted from 4s. 3d. to 5s. per lb.

QUILLAIA.—Natural bark is offering at 92s. 6d. per cwt., spot; cut is offered at 125s., and crushed at 120s.

RHATANY.—Quiet. Spot quotations are at about 9d. per lb.

RHUBARB.—Chinese rough round on spot remains firm at 4s. 9d. to 5s. per lb.; wormy material is quoted at 2s. 9d. to 3s. per lb.

SANDARAC.—Spot quotations are 5s. 9d. per lb.; afloat, 5s. 6d., c.i.f.

SARSAPARILLA.—Jamaican native red c spot is steady at from 1s. 10½d. to 2s. 1. per lb., as to seller.

SCAMMONY.—Root (18 per cent. resin on spot is quoted at 65s. per cwt.

SEEDS.—**ANISE.**—Quiet. Cyprus, 1s. 4½ to 1s. 5d. per lb., and Turkish, 1s. 4d. per lb., duty paid, spot London. **CARAWAY.**—Market firm. Dutch, quoted at 122s. 6 per cwt., duty paid, in London. **CELERY.**—Unchanged. Indian is 1s. 2d. per lb., spot London or Liverpool. **CORIANDER.**—Ma

ket easier on spot. Argentine, quoted 38 per cwt., duty paid, spot London or Live pool; Morocco now offered at 37s. 6d. per cwt., duty paid, spot London. **CUMIN.**—Cyprus is cheaper for shipment. India spot London or Liverpool, offered at 185 per cwt. Cyprus remains at 190s. per cwt. in London; forward, 140s. per cwt., c.i.f. now quoted for January-February shipment. **DILL.**—Indian remains firm at 47s. 6d. per cwt., spot London or Live pool. **FENNEL.**—Quiet, no demand. India quoted at 70s. per cwt. in London, and 69 per cwt. ex store Liverpool. **FENUGREEK.**—Market remains firm. Indian, spot London or Liverpool, is 55s. per cwt. Morocco, now 53s. 6d. per cwt., duty paid spot London or Liverpool.

SENEGA.—Attracting few inquiries. Spot supplies are offered at 8s. 3d. to 8s. 6 per lb.

SENNA.—Steady. Tinnevely leaves, spot No. 1, 9d. to 1s. per lb.; No. 2, 7½d. to 8d.; No. 3, 5d. to 5½d.; Tinnevely pod hand-picked, 9d. to 1s. 4d.; manufacturing, 4½d. to 5½d. Alexandrian pods, hand-picked, spot, from 4s. 9d. to 5s. 9d., according to quality and seller; medium, 2s. 9d. manufacturing, from 1s. to 1s. 9d. per lb. Alexandrian leaves, f.a.q., 1s. 2d.

SHELLAC.—F.O.T.N., pure 342s. 6d. F.O. Standard 1, 355s.; fine orange, 370 to 410s. per cwt., all ex London warehouse.

STRAMONIUM.—Quiet. Indian on spot is offered at 55s. per cwt.

STROPHANTHUS.—Steady. *Kombé*, 100 per cent., spot, is quoted at 11s. 6d. per lb.

STRAX.—Quiet. Supplies are offered at about 7s. 6d. per lb., duty paid.

TONKA BEANS.—Steady. Spot quotations are at 5s. 9d. per lb. for Pará blacks, at 7s. for Trinidad frosted.

TRAGACANTH.—Steady. Selected white £90 per cwt.; other white grades, from £85 to £85; pale leaf, £35 to £40; amber, £27 to £27; red, £14; hoggy, about £10 10s.

TURMERIC.—Firm. Madras finger on spot is offering at 117s. 6d. per cwt.

UVÆ URSI.—Spot quotations, ex wh London, are around 80s. per cwt.

VALERIAN.—Belgian root on spot offered at about 130s. per cwt.; cut, 165

Essential and Expressed Oils

ANISE.—Steady. Chinese star, in drums, quoted at 5s. 2d. to 5s. 3d. per lb., with 2s. 6d. for smaller quantities; float, c.i.f.; for shipment, 4s. 10d., c.i.f.

APRICOT KERNEL.—Supplies are offered around 5s. 9d. per lb.

BAY.—West Indian on the spot is quoted from 6s. 6d. to 7s. 6d. per lb.

CADE.—Steady. Spanish oil, B.P., on spot is offered at from 3s. 4d. to 3s. 10d. per lb., as to quantity; French is quoted about 2s. 9d. per lb., spot.

CAJUPUT.—B.P. is offering at from 23s. 25s. per lb., spot.

CAMPHOR.—White oil on spot is quoted from 2s. 6d. to 2s. 8d. per lb., duty paid; brown, shipment, 2s. 9d., c.i.f.

CARAWAY.—English-distilled is firm at 8s. 6d. to 40s.; imported, 27s. 6d. to 30s. per lb., as to quantity.

CASSIA.—Spot quotations are from 8s. 6d. to 15s. per lb.; 10s. 6d., c.i.f.

CASTOR.—Prices are unchanged. B.P. quality is priced at £176 per ton, naked works. In 45-gall. drums, oil is quoted 16s. 11d. per gall., carriage paid.

CINNAMON.—Steady. B.P. oil, 60s. to 8s. per lb. Bark oil is offered at 12s. per lb. Leaf oil, on the spot, 7s. to 9s. per lb.

CITRONELLA.—Ceylon is quoted at from 8s. 1d. to 3s. 10d. per lb., spot; forward, 5d., c.i.f. Java, scarce on spot, is offering at around 8s. per lb.; shipment, c.i.f.

CLOVE.—Steady. Quotations for English-distilled bud oil are at from 10s. 3d. to 11s. per lb., according to quantity.

CORIANDER.—English-distilled is quoted about 250s. to 280s. per lb., with few lots.

CUBEBS.—Supplies of English-distilled are offered at 55s. per lb.

CUMIN.—Quotations for English-distilled are around 70s. per lb.

DILL.—English-distilled is scarce at around 65s. per lb.

EUCALYPTUS.—Spot quotations for 70-75 per cent. (B.P.) are from 3s. 1d. to 3s. 3d. per lb. for drums, and up to 4s. for smalls; shipment, 2s. 9d., c.i.f.

LAVANDIN.—Spot quotations for new oil are from 7s. to 7s. 6d. per lb. A quiet market reported at origin.

LEMONGRASS.—Spot quotations are at from 6s. 9d. per lb.; 6s. 5d., c.i.f.

NUTMEG.—Prices of English-distilled oil are unchanged at 37s. 6d. to 40s. per lb.

OLIVE.—Supplies of oil from members of the Importers' Association are made at the rate of 26s. 2d. per gall. of 9 lb., ex store, duties included. Additional charges are added for small quantities, according to costs of breaking bulk, containers, delivery, etc. Prices are unchanged.

ORANGE.—Sicilian bitter, for shipment, is quoted at 13s. to 15s. 6d. per 10. c.i.f.; nominal spot value, 15s. to 17s. Jamaican bitter is quoted at 15s., spot. West African sweet, from 7s. 9d., spot; shipment, 6s. 6d. per lb. c.i.f.; Rhodesian sweet, 8s. 6d., spot.

PINE.—*Pumilionis* is quoted at about 17s. to 18s. per lb.; spot; *syvestris* is quoted at from 9s. 6d. to 13s.

PINE NEEDLE.—Supplies on spot are offered at 18s. to 20s. per lb., for first-grade. A quiet market.

ROSEMARY.—Spanish is offered at 7s. to 9s. per lb., as to quantity and quality.

TEASEED.—Spot supplies are offered at from 32s. to 33s. per gall. of 9 lb. An active market, with supplies not plentiful.

TEREBINTH.—Quotations for B.P. oil are from 1s. 6½d. to 1s. 10½d. in winchesters, and 1s. 5d. per lb. in carboys.

TI-TREE.—Quotations are from 7s. 6d. to 8s. per lb., according to quantity.

VETIVER.—Bourbon on spot is quoted at from 65s. to 70s. per lb., as to grade.

YLANG YLANG.—Bourbon, 60s. to 80s. per lb., as to grade and seller.

Synthetics and Isolates

QUOTATIONS are per lb. and vary according to grade, quantity and seller.

ACETOPHENONE.—10s. 6d. **AMYL ACETATE.**—2s. 6d. to 2s. 9d. **AMYL BENZOATE.**—5s. 3d. to 6s. **AMYL BUTYRATE.**—5s. 6d. to 6s. 6d. **AMYL CINNAMIC ALDEHYDE.**—13s. 6d. to 17s. 6d. **AMYL PHENYL ACETATE.**—9s. 3d. to 10s. 6d. **AMYL SALICYLATE.**—3s. 3d. to 4s. 6d. **ANETHOLE.**—11s. 6d. to 12s. 6d. **ANISIC ALCOHOL.**—65s. to 67s. 6d. **ANISIC ALDEHYDE.**—Ex paracresol, 21s. to 22s.; ex anethole, 27s. 6d.; perfumery grade, 24s.

BENZALDEHYDE, B.P.C.—4s. to 5s. **BENZOPHENONE.**—10s. to 14s. 6d. **BENZYL ACETATE.**—3s. to 4s. **BENZYL ALCOHOL.**—Perfumers', 3s. to 4s. **BENZYL BENZOATE.**—Perfumers', 4s. 9d. to 5s. 9d. **BENZYL CINNAMATE.**—12s. 6d. **BENZYL ISOEUGENOL.**—30s. to 35s. **BENZYL PROPIONATE.**—5s. 6d. to 6s. 6d. **BENZYL SALICYLATE.**—7s. 6d. to 8s. 6d. **BENZYL SUCCINATE.**—13s. to 14s. **BENZYLIDENE ACETONE.**—15s. to 17s. **BORNEOL.**—6s. to 8s. **BORNYL ACETATE.**—5s. 6d. to 7s. 6d. **BROMSTYROL.**—32s. 6d. to 34s. **BUTYRIC ACID.**—5s. to 6s. 6d.

CINNAMIC ALCOHOL.—17s. 6d. to 18s. 6d. **CINNAMIC ALDEHYDE.**—6s. 6d. to 7s. 6d. **CINNAMYL ACETATE.**—22s. 6d. to 25s. **CINNAMYL BUTYRATE.**—27s. 6d. to 30s. **CITRAL.**—15s. to 30s. **CITRONELLAL.**—25s. to 27s. 6d. **CITRONELLOL.**—Ex Ceylon, 25s. to 27s.; ex Java, 25s. to 30s. **COUMARIN.**—17s. to 20s.

DIETHYL PHTHALATE.—2s. to 2s. 6d. **DIMETHYL BENZYL CARBINOL.**—50s. **DIMETHYL HYDROQUINONE.**—37s. 6d. to 40s. **DIPHENYL METHANE.**—6s. 6d. to 7s. **DIPHENYL OXIDE.**—5s. 6d.

ETHYL BENZOATE.—4s. 9d. to 6s. **ETHYL BUTYRATE.**—6s. to 7s. **ETHYL CINNAMATE.**—12s. 6d. to 13s. **ETHYL CENANTHATE.**—18s. 6d. to 20s. **ETHYL SALICYLATE.**—4s. to 5s. **ETHYL VANILLIN.**—51s. **EUCALYPTOL.**—9s. to 10s. 6d. **EUGENOL.**—14s. to 16s.

TRADE MARKS

(From the "Trade Marks Journal,"
December 31, 1948)

- "REVLON"; by Revlon Products Corporation, New York; 655,041. For non-medicated toilet preparations (3).
- "TEXAPASTE"; by Textino, Ltd., Manchester; 665,581. For pastes containing soap for use as detergents (3).
- "BAXOPE"; by Bacterol, Ltd., London, W.C.2; 667,717. For detergents (3).
- "AVON"; by the Avon India Rubber Co., Ltd., Melksham; 631,856-58 and 631,866. For scientific apparatus made wholly or principally of rubber (9). For sponges and hot-water bottles (21).
- "RECTOSALYL"; by Ana Laboratories, Ltd., Alper-ton; B663,453. "GLAINABOL" and "GLAIN"; by Glain Industries, Manchester; 664,168-69. "THERASAN" and "THERASULE"; by Thera-peutic Products, Ltd., Greenford; 666,308 and 666,600. "AQUA KAMISA"; by Kamisa Labo-ratories, Ltd., London, E.C.3; 667,253. For pharmaceutical preparations (5).
- "VAGOSED"; by the Wellcome Foundation, Ltd., London, N.W.1; 665,105. For sedative prepara-tions for use in treating the pneumo-gastric nerves (5).
- "ANTIF"; by Cooper, McDougall & Robertson, Ltd., Berkhamsted; 665,658. For insect-repelling preparations (5).
- "PSYCHACIDE"; by Pest Control, Ltd., Harston; 667,893. For insecticides and herbicides (5).
- "TALCO"; by Morecambe Photographic Services, Ltd., Morecambe; 660,047. For photographic apparatus and instruments (9).
- "MEDACRYL"; by Motor and Air Products, Ltd., London, S.W.1; B662,339. For surgical appli-ances, apparatus and instruments of acrylic resin plastics, excluding artificial teeth and den-tures (10).
- "TECHNICOLOR"; by John Rostron & Sons, Ltd., Manchester; B667,951. For non-medicated toilet paper (16).
- "LENGOFIL"; by Christopher Leng & Sons, Ltd., Birmingham; 667,184. For brushes (21).

(From the "Trade Marks Journal," January 5)

- "DI-NOC"; by the Di-noc Co., Cleveland; 657,269. For chemical substances for use in photography (1).
- "NUTROID"; by Nutriculture, Ltd., Nottingham; 661,245. For fertilisers (1).
- "DALF"; by Herbert Drake-Law, London, E.15; 666,139. "ARNOCO"; by James Arnott & Sons, Ltd., Newcastle-on-Tyne; 667,194. For indus-trial, scientific and agricultural chemicals (1).
- "ANTAPHOR"; by Ciba, Ltd., Basle; 667,290. For all goods (1).
- "BOCAGES"; by Lancome, S.A., Paris; B655,066. "ICARE"; by Winifred May Waller, Walford; B656,421. "SYKETTE"; by T. Wood & Son (Cleckhea.on), Ltd., Cleckheaton; B663,472. "MARY CHESS LONDON" in circular device in-cluding chessman (words "Mary Chess" dis-claimed); by Mary Chess, Ltd., London, N.W.1; 665,312. "BIOCYLLE"; by Tokalon,

- Ltd., London, W.1; 667,089. "RASSOTOPIA" by Raton Frères, London, W.1; 667,81.
- "VISCOUNR"; by N.C.K. Products, Ltd., Le-don, W.C.2; 674,935. "GUITARE"; by Vale Laboratories, Ltd., London, N.W.1; 663,13.
- For non-medicated toilet preparations (3).
- "CAMPHEX" and owl design; by W. C. Evans Co., Manchester; 661,024-25. For cleaning a degreasing preparations in liquid form contain-ing camphor (3), for deodorisers, disinfectant and insecticides in liquid form containing cam-phor (5).
- "CRIN-O-Viv" and "TINTOCRIN"; by Vin Biocrin, Ltd., London, W.2; 663,174 and 666,291. For hair preparations (3).
- "QUIX"; by Joseph Watson & Sons, Ltd., Leed 665,956. For non-saponaceous detergents in liquid form (3).
- Device of tube of Odol tooth-paste and nume-ral "8" (numeral "8" disclaimed); by Cranbu Ltd., Norwich; 667,001. For dentifrices (3).
- "SPOTZA"; by Harry Ibbetson, Stevenag 667,524. "TRIMINIZE"; by Trimite, Ltd Greenford; 667,927. For all goods (3).
- "SULPHUSOL"; by Bell & Sons, Ltd., Liverpo B653,423. For veterinary preparations contain-ing sulphonamides (5).
- "FLEXIT"; by Bengué & Co., Ltd., Alper-to 654,433. For medicated ointments for hum use (5).
- "CERRO-PAN"; by Reginald Loftus (Photographic Ltd., Southampton; 666,555. "METTRIM"; Merritt's Trimmers, Ltd., Trowbridge; 667,16. For photographic apparatus (9).

FIFTY YEARS AGO Pharmacy in Russia

(From the *C. & D.*, January 14, 1899)

SEVERAL important reforms are on the move in Russian pharmacy. The one that is at the moment absorbing the attention of pharmacists is the agitation among assistants for shorter hours of labour and better conditions of work generally. Moscow pharmacists are not indisposed to grant some concession, and it is reported that they have actually reduced the hours from fourteen per day to seven, but the announcement is premature. What has been done is to inquire into the conditions obtaining in other countries, including Great Britain, and we believe that, as far as practicable, Russian assistants will be put on a similar footing to their British *confrères*. Another reform deals with pharmacy monopolies. It is now proposed to abolish these and permit all fully qualified and registered pharmacists to start in business when and where they choose, and even private individuals, it is reported, may own drug-stores if they are managed by registered pharmacists.



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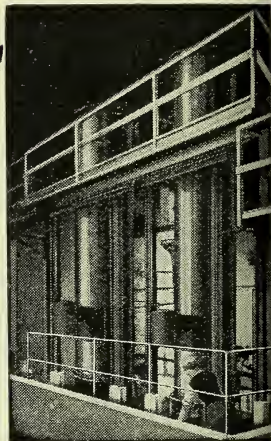
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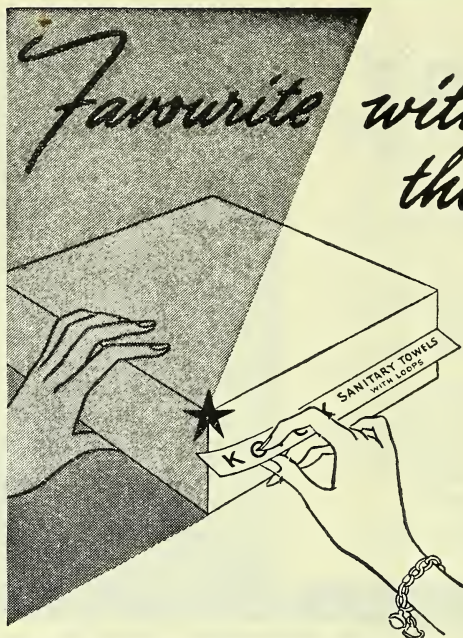
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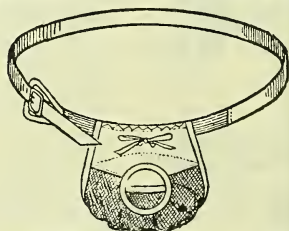
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